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AUTHOR INDEX, 1988

- Abad, Encarna Lorenzo, 317
 Abbasi, Shahid A., 1561
 Abdel-Hamid, Mohamed E., 1443
 Abdul Hamid, Junainah, 81
 Abeed, Fathi A., 333
 Abu Zuhri, Ali Z., 977
 Abu-Bakr, M. S., 1643
 Abuirjeie, Mustafa A., 1443
 Acree, Jr., William E., 1465, 1869
 Adlard, Maxwell W., 1197
 Agarwal, Vipin K., 907
 Ahlgren, Markku, 285
 Ajlec, Radmila, 585
 Al-Abachi, Mouayed Q., 1661
 Al-Alaf, Talal A. K., 333
 Al-Ammar, Assad S., 837
 Al-Aziz, Mohammad S., 1365
 Alda, Engracia, 1719
 Al-Delami, A. M. S., 1661
 Aleixo, Luiz M., 1427
 Alent, Grace, 121
 Alfassi, Zeev B., 1855
 Al-Khamees, Hamad A., 563, 599
 Al-Najafi, S., 1661
 Alonso, Julian, 1677
 Alonso, Rosa M., 27, 361, 1337
 Alpertunga, Buket, 1745
 Al-Sammerrai, Dhoab, 669
 Al-Sammerrai, Fahih, 669
 Alvarez Jiménez, M. Dolores, 633
 Aly, F. A., 955
 Al-Yawer, Nada F. N., 1365
 Amlathe, Sulbha, 1481
 Analytical Methods Committee, 903, 1125, 1469
 Ang, Kok-Peng, 617, 1533
 Antrim, Robert F., 341
 Aoki, Nobumi, 1035
 Araújo, Adelia C. P., 1189
 Arber, Judith M., 779
 Arimoto, Hiromi, 789
 Arnaud, Nadine, 447
 Arpadjan, Sonia, 1699
 Arranz Valentin, Juan Francisco, 629, 1047
 Assubaie, F. N., 61
 Atallah, Raja H., 463
 Aucott, Lorna S., 1849
 Ayianndis, Aristomenis K., 153
 Baccan, Nivaldo, 289
 Badri, Babiker, 351
 Bagheri, Habib, 1175
 Baiocchi, C., 805
 Balasubramanian, N., 1097
 Balcerzak, Maria, 129
 Barber, Timothy, 1807
 Barna-Katona, Klára, 569
 Barros, Aquiles Araújo, 853
 Bartos, Michal, 1357
 Bartrolf, Jordi, 1677
 Başaran, Nursen, 1873
 Bataglia, Ondino C., 289
 Baucells, Montserrat, 1325
 Bazzi, Ali, 121
 Beckett, Ronald, 1253
 Bedair, Mona M., 1137
 Beinrohr, Ernest, 1831
 Belal, Fathalla, 637, 955, 1087
 Berman, Shier S., 159
 Bersier, Jacques, 3
 Bersier, Pierre M., 3, 721
 Bertelli, Roberta, 1101
 Bertolo, P., 805
 Beven, John L., 1509
 Bhale, Ajay, 45
 Bhat, R. V., 809
 Bianco, Mariagrazia, 87
 Blanchin, Marie-Dominique, 651, 899
 Blanco, Manuel H., 41, 1719
 Blanco, Marcelo, 433
 Blankenship, Kathy D., 99
 Boelrijk, N. A. I. M., 1145
 Borgal, Deborah, 307
 Borgal, Shirley, 307
 Borrachero, A., 1795
 Borrull, Francesc, 505
 Bosch Ojeda, C., 1283, 1287, 1291
 Bosch Reig, Francisco, 1011
 Bosque Sendra, J. M., 419
 Boss, Robert, 307
 Bounoure, J., 1143
 Brajter, Krystyna, 1571
 Brayan, John G., 1493
 Brindle, Ian D., 1377
 Brzózka, Zbigniew, 891, 1803
 Buckland, Stephen T., 1849
 Buckley, Eileen, 31
 Buldini, Pier Luigi, 1317
 Bushee, Diane S., 1167
 Cabral, Joao O., 853
 Caddy, Brian, 385
 Cai, Li-Zhen, 21
 Callahan, Susan A., 1213
 Calokerinos, Antony C., 603
 Calull, Marta, 505
 Calvo, Lorenzo, 321
 Camacho, Luis, 23
 Camargo, Márcia M. A., 1189
 Campanella, Luigi, 77, 325
 Campbell, William C., 117, 1241
 Campíns Falcó, Pilar, 1011
 Candiano, Giovanni, 1101
 Cañete, F., 739
 Cano Pavón, José M., 443, 547, 1283, 1287, 1291
 Capitán-Vallvey, L. F., 419
 Cardwell, Terence J., 1551
 Carboni, G. P., 805
 Castillo, Juan R., 1387
 Cataldi, Tommaso R. I., 869
 Cathapermal, Segdabarum, 385
 Cattrall, Robert W., 1551
 Cavrini, Vanni, 1447
 Cerdá Miralles, J., 429
 Cesaroni, M. Rosa, 1447
 Chagonda, Lameck F. S., 233
 Chamsi, Antoine Y., 1723
 Chan, Wai-Ming, 765
 Chan, Wing Hong, 1415
 Chang, C. Allen, 1485
 Charlson, Robert J., 301
 Chen, Lie, 679
 Chen, Nai-lin, 595, 1105
 Cherne, Frank J., 201
 Cheung, Yuk Ying, 125
 Chiavari, Giuseppe, 91
 Chico Guijarro, Elena, 625
 Chikuma, Masahiko, 829
 Christian, Gary D., 301, 463, 1821
 Ci, Yun-Xiang, 679, 933, 1453
 Claeys, Albert, 1687
 Clarke, Sally, 1757
 Cleary, Michael, 1171
 Collier, A. R., 345
 Concialini, Vittorio, 91
 Conway, Brian, 1397
 Cook, Bernard W., 1171
 Cooksey, Brian G., 117
 Cop, Mojca, 585
 Cosgrove, M., 1811
 Covington, Arthur K., 895
 Cowe, Ian A., 269
 Cox, Alan G., 125
 Cox, Anthony, 1799
 Cox, James A., 977, 1401
 Creaser, Colin S., 1175
 Cuthbertson, D. Clifford, 269
 Dabek-Zlotorzynska, Ewa, 1401, 1571
 Dadgar, Darioush, 229, 1223
 Damodaran, Alathur D., 1061
 Dams, Richard, 1691
 Das, Pradip K., 1601
 Das, T. K., 1653
 Date, Alan R., 125
 Davidson, Alexander G., 533, 537, 543
 Davies, D. Martin, 1477
 Davies, O. Glyn, 497
 Davis, Terri A., 405
 Davison, William, 709, 1537
 D'Costa, Eric J., 225
 de Andrade, João Carlos, 289, 295
 de Gyves, Josefina, 1325
 de la Guardia, Miguel, 1069
 de Oliveira, Wallace A., 359
 de Rooij, Nico, 1029
 de Ruck, Ann, 1691
 Deary, Michael E., 1477
 del Valle, Manuel, 1677
 Delves, H. Trevor, 911
 Demertzis, Mavroudis A., 251
 Deng, Jia-qi, 1431
 Desai, Sumant R., 667
 Desilets, Mario O., 201
 Desmarchelier, James M., 1493
 Desmet, Bernard, 1691
 Devesa, Ricardo, 1529
 Dhingra, Mrs. Usha, 675
 Di Furia, Fulvio, 793
 Díez-Caballero, Ramón Barrio, 629, 1047
 Dilli, Sergio, 1493
 Dillon, Michael, 225
 Diplock, Anthony T., 281
 Djoufack-Woumfo, Emmanuel, 447
 Dong, Shaojun, 1525
 Dowle, Chris J., 117, 1241
 Drikas, Mary, 1273
 Dube, Prakash, 917
 Dubois, Pierre, 929
 Dumasia, Minoo C., 1179
 Dunne, Sinead, 1791
 Dutt, Jatinder, 493
 Dymond, Harry F., 1509
 Ebdon, Les, 641, 1159
 Edmonds, Tony E., 705, 979
 El-Atrash, A. M., 937
 El-Brashy, Amina, 637, 1309
 El-Didamony, Akram M., 577, 1277
 El-Kommos, Michael E., 133, 1091, 1267
 El-Sayed, A. Y., 937
 El-Shazly, Bahaa-El-Din M., 599
 Elson, Clive M., 197
 Elwood, Jerry W., 645
 Emara, Kamla M., 133, 1267
 Ersoy, Lale, 1745
 Evans, Christine S., 1605
 Evans, Otis, 243
 Evmiridis, Nicholas P., 1051
 Fabre, Huguette, 651, 899
 Fadiran, Emmanuel O., 533, 537, 543
 Fairbrother, Ann E., 797
 Fängmark, Ingrid, 511
 Fehér, Zsófia, 881
 Fenwick, G. Roger, 1515
 Fernando, A. Ransirimal, 479
 Ferreira, Mónica, 289
 Ferrera, Zoraida Sosa, 621
 Ferri, Donatella, 1317
 Fielden, Peter R., 1799
 Fiorani, Mario, 1205
 Firth, Barry M., 365
 Fisher, Janice M., 875
 Flint, F. Olga, 365
 Florindo, Javier, 555
 Fogg, Arnold G., 27, 361, 483, 727, 853, 979, 1337, 1723
 Fonong, Tekum, 1807
 Foote, John W., 911
 Foster, Robert D., 1613
 Francis, Colin, 1029
 Frenzel, Wolfgang, 1039
 Fujii, Toshihiro, 789
 Fujio, Yoshifumi, 189
 Fukasawa, Tsugio, 1827
 Fukunaga, Yumi, 45
 Gaiand, Virindar S., 1209
 Galbán, Javier, 1387
 Galeano Diaz, T., 1341, 1657
 Gallarta, Félix, 1387
 Galletti, Guido C., 91
 Gallorini, M., 1575
 Garaj, Ján, 1831
 Garcés Mayo, Jesús Julio, 1047
 García de Torres, Amparo, 443, 547, 1283, 1287, 1291
 García-Blanco, Francisco, 23
 Garofalo, Alberto, 1205
 Garghite, Paul H., 1849
 Gatti, Rita, 1447
 Georges, Joseph, 447, 1113
 Georgiou, Constantinos A., 755
 Ghawji, Ahmed B., 727
 Ghiggi, Gian Marco, 1101
 Giddings, J. Calvin, 1253
 Ginevri, Fabrizio, 1101
 Girelli, Anna Maria, 1245
 Gliddon, Michael J., 813
 Godinho, Oswaldo E. S., 1427
 Goewie, C. E., 1237
 Goicolea Altuna, Maria Aranzazu, 629, 1047
 Gomez Gomez, Milagros, 1109
 Gómez-Hens, Agustina, 559
 Gómez-Jeria, J. Sebastián, 859
 González, Elisa, 1715
 Goto, Katsumi, 1695
 Goto, Nozomi, 1333
 Gowda, Halukuru Sanke, 1649
 Gray, Sophie, 1605
 Grey, Howard, 895
 Grima, Rosario, 613
 Grisel, Alain, 1029
 Groth, William, 813
 Groves, John A., 1613
 Guenther, William B., 683
 Guerrieri, Antonio, 869
 Guinón, José L., 613
 Gunasingham, Haritharan, 617, 1533
 Gündüz, Neclâ, 715, 965
 Gündüz, Turgut, 715, 965, 1017, 1313
 Guo, Runde, 595, 1105
 Gupta, Hari Om, 493
 Gupta, R. L., 1665
 Gupta, V. K., 825, 1481
 Gusmano, Rosanna, 1101
 Gustavsson, Anders, 591
 Guthrie, Andrew J., 457
 Gutiérrez, M^a Carmen, 559
 Haddad, Paul R., 1493
 Hall, Thomas F., 337
 Hamada, M. A., 1709
 Hamano, Takashi, 1035
 Hameed, A. Shahul, 1561
 Hamilton, Ian C., 1365, 1551
 Hara, Hirokazu, 113, 1817
 Harbinson, Terence R., 709, 1537
 Hart, John P., 1785
 Hartenstein, Steven D., 463
 Hassan, S. M., 1087
 Hassan, Saad S. M., 1709
 Hata, Noriko, 1695
 Hauser, Peter C., 1551
 Hawke, David J., 413
 He, Fengru, 389
 Heaney, Robert K., 1515
 Heineman, William R., 95
 Hemens, Chantal M., 197
 Hendry, James B. M., 1249
 Henriks-Eckerman, Maj-Len, 239
 Hermes, G. B. M., 1237
 Hernández Blanco, Manuel, 317
 Hernández Hernández, F., 437

- Hernández Hernández, Lucas, 41, 109, 317, 621, 1715, 1719
Hernández Méndez, J., 429
Hernández, Pedro, 41, 621, 1715, 1719
Herod, Alan A., 797
Higo, Morihide, 45
Hilgard, Stanislaw, 1729
Hill, Steve, 1159
Himeno, Sadayuki, 1639
Himmelpach, Karl, 1423
Hincal, Filiz, 1873
Hiratani, Kazuhisa, 1065
Hitchman, Michael L., 35, 875
Hodgson, F. John A., 225
Holt, Geoffrey, 1197
Honda, Yoshihide, 515
Hong, Qunfa, 1261
Hori, Toshihiko, 1639
Horiguchi, Shun-ichi, 515
Horikawa, Rikizo, 1673
Horvai, György, 1817
Houghton, Edward, 1179
Hu, Zhide, 179
Huo, Shouqin, 685
Ibrahim, Fawzia, 637
Idriss, Kamal A., 1643
Indrasenan, P., 1369
Indyk, Harvey E., 1217
Ishak, Che Fauziah, 941
Ishida, Ryoei, 1545
Ishihara, Masahito, 1737
Issa, Ahmed S., 1137
Issopoulos, Prodomos B., 1083
Ivaska, Ari U., 1427
Iwachido, Tadashi, 743
Iwatsuki, Masaaki, 1827
Jaber, A. M. Y., 1409
Janardanan, C., 1141
Janghorbani, Morteza, 405, 1837
Jäppinen, Paavo, 839
Javůrek, Milan, 1357
Jayaprakash, G. P., 523
Jee, Roger D., 1321
Jenny, Hans-Beat, 721
Ji, Huamin, 1541
Jimba, Hitoshi, 789
Jimenez, Rosa M., 27
Jiménez Sánchez, J. C., 1341
Jones, Hannah R., 1383
Jones, Phil, 641
Jones, Raymond J., 817
Jones, Vonda K., 183
Jovanović, M. S., 71
Jovanović, V. M., 71
Jun, Zou, 1631
Kabasawa, Yozo, 1673
Kakabadse, George J., 337, 1365
Kakkar, Lajpat R., 675
Kamata, Satsuo, 45
Kan, Masahiko, 1683
Kanetani, Fujio, 399
Karadaghi, Thuraya Mohamed, 843, 1593
Karadjova, Irena A., 1699
Karim, Mohamed Rashid Omar, 843, 1593, 1865
Kasahara, Issei, 1695
Katsumata, Toshifumi, 1827
Kauppinen, Matti, 273
Kawakubo, Susumu, 1827
Kazim, Naveen O., 1605
Kellner, Lori, 1253
Kelly, Mary T., 229, 1223
Kelly, Patricia M., 895
Kempe, Alexander J., 1117
Kenar, Adnan, 965
Kenig, Martin D., 761
Kerr, Amanda F., 213
Khopkar, Shripad M., 175, 1781
Kılıç, Esma, 715, 965, 1017, 1313
Kılıç, Zeynel, 965
Kimura, Keiichi, 551
Kinnear, Kenneth I., 895
Kiss, Ilona T., 569
Kiss, Mária, 569
Kitadani, Toshio, 581
Knight, D., 165
Knight, David W., 1785
Kobayashi, Kenji, 1121
Kodama, Takahiro, 1737
Koh, Tomozo, 945, 949
Kohnke, F. H., 1295
Kok, Wim Th., 651
Kolbe, Ilona, 881
Kontkanen, Aune, 285
Korany, Mohamed A., 1137
Köseoglu, Fitnat, 715, 1313
Kouadio-Kouakou, Luc-Philippe, 1843
Koukli, Ioanna I., 603
Koupparis, Michael A., 755
Kovács-Hadady, Katalin, 569
Kowalski, Zygmunt, 15
Krishnamoorthy, T. S., 667
Kuldvere, Arnold, 277
Kumar, K. Girish, 1369
Kumar, Munish, 1665
Kumar Singh, Sunil, 259
Kuroda, Rokuro, 1557
Kuroda, Toshinori, 747
Kwiecinska, Barbara, 451
Lacort, Gloria, 1325
Lai, Edward P. C., 595, 1105
Laijoki, Terttu, 239
Lajunen, Lauri H. J., 1567
Lally, John M., 399
Lam, King Sum, 1415
Lan, Zhang-Hua, 933, 1453
Langmaier, Jan, 501
Latham, David J., 1213
Latorre, Cristina, 317
Lau, Oi-Wah, 765, 865
Laurialt, Ginette, 1213
Lavagnini, Irma, 1205
Lavi, Nathan, 1855
Le, Xiao-chun, 1377
LeBelle, Michael J., 1213
Lechler, Paul J., 201
Lee, Wai Ming, 1415
LeFeuvre, Raymond P., 817
Leiner, Marc J. P., 1519
Leitner, Alfred, 693
Lemus Gallego, J. M., 1341
Lemus, José M., 1439
Levillain, Pierre, 929
Levin, Jan-Olof, 511
Li, Bingyin, 57
Lianidou, Evriklia S., 1459
Lima, J. L. F. C., 1023
Lin, Gwo-Chung, 1485
Lin, Jenn-Lin, 423
Lindell, Henry, 839
Lingeman, Henk, 171
Liu, Hui, 685
Liu, Rensu, 1261
Liu, Wang, 933
Lloyd, Anthony, 413
Loboschi, Edwin M., 295
Lockhart, Joyce C., 895
López Benet, F. J., 437
Lorenzo, Encarnacion, 621, 1719
Lu, Peichang, 1261
Lü, Taiping, 57
Lu, Ziling, 1525
Lubbers, Dietrich Werner, 1423
Ludvik, Jiff, 1729
Luft, Arno G., 1117
Luis Avila, José, 23
Luk, Shiu-Fai, 765, 865
Lunte, Craig E., 95
Lunte, Susan M., 99
Luque de Castro, M. D., 739
Luther, III, George W., 341
Lynch, Thomas P., 1597
McCormack, Kathleen, 399
McCurdy, Ross, 307
Machado, Adélio A. S. C., 49, 1023
McKee, Gerald D., 243
McLeod, Cameron W., 125
McNicol, James W., 269
Macpherson, Andrew K., 281
Maeda, Yasuaki, 139, 189
Magno, Franco, 1205
Mahmoud, W. H., 937
Maiti, Biswanath, 667
Major, Hilary J., 797
Makino, Ichiro, 945
Malet, Antonio, 1529
Mallein, René, 1843
Mandrou, Bernadette, 899
Mannino, Saverio, 87
Mantel, Mariana, 973, 1855
Manuel de Villena Rueda, Francisco Javier, 573
Marcé, Rosa Maria, 505
Mauraud, Michèle, 929
Markantonatos, Antony, 813
Márquez, Manuela, 1373, 1733
Marr, Iain L., 1635
Martí, Isabel, 1677
Martin, Cathy, 1509
Martindale, Ronald W., 1229
Martínez-Lozano, Carmen, 1057
Matsoukas, Konstantinos A., 251
Matuszewski, Wojciech, 735
Mauranen, Ritva, 273
Mazzei, Franco, 325
Mealor, David, 1589
Medina Escriche, J., 437
Meloun, Milan, 1357
Memon, M. Hanif, 769
Merás, Isabel Durán, 987
Mermet, Jean-Michel, 1113
Messina, Antonella, 1245
Michalowski, Tadeusz, 833, 969
Michigami, Yoshimasa, 389
Midgley, Derek, 997, 1743
Miller, James N., 1351
Miller, Jane C., 1351
Millership, Jeffrey S., 233
Minear, Roger A., 645
Mishra, A. P., 329
Mitsubishi, Yukimasa, 1035
Miura, Yasuyuki, 949
Montgomery, Judy, 121
Monzó, José, 1069
Moody, G. J., 61, 65, 81, 103, 497, 699, 1023, 1295, 1409, 1419, 1703, 1811
Moody, John R., 923
Morales, Alfonso, 859
Morales-Lagos, Demian, 859
Morelli, Basilio, 1077
Moreno Cordero, B., 429
Morrison, Ian M., 841
Morselli, L., 1575
Moss, Donald E., 1485
Motoike, Atsushi, 113
Motomizu, Shoji, 743, 747, 1631
Mulholland, M., 165
Mulholland, Patrick J., 645
Munemori, Makoto, 139, 189
Muñoz de la Peña, Arsenio, 987, 1435, 1439
Muñoz de la Peña, Francisco, 987
Muñoz, Eulogia, 23
Murillo, José A., 1435, 1439
Nahdi, S., 809
Nair, S. Madhavankutty, 1141
Nakagawa, Genkichi, 1405
Nakagawa, Terumichi, 829
Nakaji, Kazushige, 519
Nakamura, Toshinori, 1737
Nakashima, Susumu, 159
Nara, Tadashi, 1557
Narayanawamy, Ramaier, 457, 661
Nasu, Toshiko, 1683
Negrusz-Szczęśna, E., 969
Ngo, C. C., 1533
Nilsson, Carl-Axel, 591
Nipaney, Prakash C., 1561
Nirmalchandar, V., 1097
Nobili, Dario, 1317
Norton, Paula, 307
Nukatsuka, Isoshi, 1545
Nyasulu, Frazier W. M., 875
Nygren, Olle, 591
Obiols, José, 1529
O'Dea, Philip, 1791
Oguma, Koichi, 1557
Ogura, Miyoshi, 789
Oh, Rie, 829
Ohno, Shigeru, 515
Ohta, Takafumi, 1333
Ohzeki, Kunio, 1545
Oji, Yoshiaki, 1035
Okabayashi, Yoshito, 829
Okazaki, Satoshi, 113
O'Kennedy, Richard, 31, 525
Olatoye, Emmanuel O., 337, 1365
Oleggini, Roberta, 1101
Ono, Masanori, 945
Onoda, Minoru, 743
Opekar, František, 501
Opitz, Norbert, 1423
Osborne, Brian G., 263
Oshima, Mitsuko, 743, 747, 1631
Ottaway, John M., 117
Oue, Masatoshi, 551
Owusu, Richard K., 65
Ozaki, Kaori, 789
Özkan, Güleren, 1017
Öztaş, S. Gül, 715, 1313
Padalikar, S. V., 1747
Pal, Tarasankar, 1601
Palacios Corvillo, M. Antonia, 633, 1109
Palmisano, Francesco, 869
Palshis, Edward M., 705
Pandey, P. C., 329
Papanastasiou-Diamandi, Anastasia, 1459
Parkash, Ram, 493
Parker, Richard M., 1875
Pasquini, Celio, 359
Patsalides, Emiliós, 213, 1757
Paulsen, Paul J., 923
Peinado, José, 555
Perämäki, Paavo, 1567
Pérez Pavón, J. L., 429
Pérez Pérez, Rafael, 573
Pérez-Bendito, Dolores, 559, 1373, 1733
Pérez-Ruiz, Tomás, 1057
Perfumo, Francesco, 1101
Perry, Roger, 337, 1365
Pettiti, G., 805
Pflaum, Ronald T., 941
Piccardo, Maria Teresa, 1101
Pinatel, Henri, 1843
Pingarron Carrazon, Jose M., 625
Pinilla Macias, José Maria, 109
Plambeck, James A., 479
Polák, Jaroslav, 501
Polo Díez, Luis M., 573, 625, 633
Pomares, Fernando, 1069
Poole, Colin F., 1869
Powell, Francis E., 483
Prasad, Tata N. V., 255
Prasada Rao, Talasila, 1061
Prato, Maurizio, 793
Proctor, Christopher J., 1509
Pungor, Ernő, 881, 1817
Qiu, Xing-Chu, 1329
Quantick, Peter C., 225
Ramakrishna, Y., 809
Ramamurti, K., 523
Ramanathan, Subramaniam, 35
Rao, K. Mallikarjuna, 983
Rao, S. Brahmaji, 983
Rath, Susanne, 1427
Rathore, D. P. S., 1073
Read, Harry, 1249
Read, Scott A., 99
Reck, Bernhard, 1423
Reddy, T. Sreenivasulu, 983
Reeuwijk, Bea J. E. M., 171
Rekha, Ganaganur K., 1649
Rennie, Peter J., 665
Ribon, Bruno, 1843
Riby, Philip, 125

- Rica, Carmen Camara, 1109
 Richter, Pablo, 859
 Ridout, Paul S., 1383
 Ríos, A., 739
 Rizk, Mohamed, 1309
 Rizzio, E., 1575
 Robards, Kevin, 213, 1757
 Robel, Edward J., 687
 Rodgers, Allen Lawrence, 783
 Rodriguez Flores, Juana, 31, 321, 525, 1795
 Rodriguez Procopio, Jesús, 109
 Rojček, Ján, 1831
 Rokosz, A., 969
 Rondot-Dudragne, Marie-Laure, 899
 Rose, Norman J., 301
 Roura, Montserrat, 1325
 Routley, Bryce I., 1273
 Roveri, Paola, 1447
 Rushton, Philip, 705
 Russell, David A., 457
 Růžicka, Jaromir, 301, 1821
 Saad, Bahruddin B., 1295
 Saari, Raaidah, 1401
 Sabot, Jean-François, 1843
 Saha, U., 1653
 Sahoo, Sarat K., 1781
 Saini, G., 805
 Saito, Masashi, 509
 Saleh, Magda S., 1643
 Salgado, M., 1283
 Salinas, Francisco, 987, 1435, 1439, 1657
 Salvadori, Myriam C., 1189
 Sammartino, Maria Pia, 77
 Sampson, Barry, 281
 Sánchez, Antonio, 321, 1795
 Sánchez, M. Elena, 1435
 Sanchez, María, 41
 Sanchez, Maria Laura Ruberte, 959
 Sánchez Rojas, F., 1287
 Sánchez-Pedreño, Concepción, 145
 Sanghera, G. S., 1419
 Sano, Akira, 1669
 Sanz, Antonio, 145
 Sanz, Jesús, 1387
 Sarantonis, Evangelos G., 603
 Sashidhar, R. B., 809
 Sastry, Bhetanabhotla S., 255
 Sastry, Chilukuri S. P., 255
 Sato, Yuko, 773
 Savariar, Cheriyan P., 1141
 Savolainen, Heikki, 839
 Sbrilli, Riccardo, 325
 Schaffar, Bernhard P. H., 693
 Schuette, Sally, 1837
 Scorrano, Gianfranco, 793
 Scullion, S. Paul, 979
 Searle, Edward, 1235
 Sedaira, Hassan, 1643
 Segars, Julie E., 645
 Seleim, Mohamed M., 1643
 Sen, A. K., 1653
 Serrano Gil, M. Isabel, 633
 Sevilla, III, Fortunato, 661
 Shah, Ajit J., 1197
 Sharaf El-Din, M., 1087
 Sharp, Gerard J., 1493
 Shaw, Ian C., 1875
 She, Jianwen, 1261
 Shearan, Paula, 609, 1791
 Shen, Miao-Kang, 1139
 Shetty, Prabhakara H., 1869
 Shi, Xi-Kui, 355
 Shijo, Yoshio, 519, 1201
 Shimizu, Tokuo, 519, 1201
 Shinde, B. M., 1747
 Shinde, S. S., 1747
 Shino, Mitsumasa, 393
 Shono, Toshiyuki, 551
 Shoukry, Adel F., 1305
 Sierra, Maria Isabel, 145
 Sierra, Maria Teresa, 145
 Silundika, Cecilia, 1105
 Silva, Manuel, 1373, 1733
 Singh, Saranjit, 1665
 Singh, Tejwant, 493
 Singla, R. K., 1665
 Sinibaldi, Massimo, 1245
 Sioda, Roman E., 489
 Siskos, Panayotis A., 1459
 Skicko, John I., 297
 Slater, Jonathan M., 103, 699, 1703
 Smith, Elizabeth H., 841
 Smolander, Kimmo, 273
 Smyth, Malcolm R., 31, 525, 609, 1791
 Soni, Rajendra, 1561
 Soundar Rajan, S. C., 313
 Soupe, J., 1143
 Spillane, William J., 399
 Spinks, E. Ann, 1515
 Srinivasa Murti, S., 313
 Srivastava, Ashutosh, 259
 Stegehuis, Desirée S., 171
 Stivanello, Mariano, 793
 Stoddart, J. F., 1295
 Stokes, Brian J., 797
 Stratis, John A., 1699
 Street, Jr., Kenneth W., 347, 1465, 1869
 Štupar, Janez, 585
 Sturgeon, Ralph E., 159
 Subrahmanyam, J., 313
 Sudershan, R. V., 809
 Suetaka, Tohru, 189
 Sugiyama, Masahito, 1639
 Sukumar, Rugmini, 1061
 Sulaiman, Sadallah T., 333
 Sultan, M., 1087
 Sultan, Salah M., 149
 Sun, Zhisheng, 1525
 Sunita, Miss S., 825
 Suschny, Otto, 451
 Suzuki, Mikio, 949
 Szklar, Roman S., 1209
 Taguchi, Shigeru, 1695
 Takahashi, Takenori, 389
 Takenaka, Norimichi, 139
 Takeuchi, Toshifumi, 1673
 Takitani, Shoji, 1333, 1669
 Tan, Susie S., 1551
 Tanaka, Hisashi, 829
 Tanaka, Kazuyoshi, 509
 Tanaka, Nobuyuki, 1401
 Tang, Yubing, 179
 Tanimura, Takenori, 1673
 Tarafder, P. K., 1073
 Tarín, Pedro, 433
 Tartin, James G., 183
 Tarver, Marian, 347
 Tawfik, Ahmed, 297
 Tay, Boon-Tat, 617
 Teale, Philip, 1179
 Teramoto, Keiko, 515
 Terpinski, Eva A., 1473
 Thomas, C. L. Paul, 1799
 Thomas, J. D. R., 61, 65, 81, 103, 497, 699, 1023, 1295, 1409, 1419, 1703, 1811
 Thompson, James C., 671
 Thompson, Michael, 1579
 Ting, Bill T. G., 405, 1837
 Tipping, Anthony E., 337, 1365
 Tjaden, Ubbo R., 171
 Toei, Jun'ichi, 247, 475, 731, 1861
 Tomás, Virginia, 1057
 Tomassetti, Mauro, 77, 325
 Torres, Josep, 505
 Tossidis, Ioannis A., 1699
 Trettnak, Wolfgang, 1519
 Trojanowicz, Marek, 735
 Tsalev, Dimitar L., 1699
 Tsukioka, Tadashi, 193
 Tunuli, M. S., 1339
 Ueda, Joichi, 581
 Ueda, Kazumasa, 389, 773
 Uno, Takashi, 1545
 Urayama, Yukio, 1695
 Urch, David S., 779
 Ureña Pozo, M. Encarnación, 443, 547, 1291
 Uzunova, Milena I., 1699
 Valcárcel, Miguel, 739
 Valencia, M. C., 419
 Valente, Isabel M., 1589
 van Belle, J. C., 1145
 van den Broek, Huub H., 1237
 van den Vlekkert, Hans, 1029
 van der Greef, Jan, 171
 van Staden, Jacobus F., 885
 Vandecasteele, Carlo, 1691
 Vasconcelos, M. Teresa S. D., 49
 Vattulainen, Kaarlo, 285
 Vaudrey, Stuart, 1365
 Vehviläinen, Hannu, 285
 Velghe, Noël, 1687
 Velletri, Mirtes E., 1189
 Venkata Rao, Erraguntla, 255
 Vereault, Donald, 1837
 Veselsky, Johannes C., 451
 Vicente, Jose, 317
 Villa, Alberto Enrique, 1299
 Vin, Miss Yi Yu, 175
 Vinagre, Francisco, 321, 1795
 Volke, Jiff, 1729
 Voulgaropoulos, Anastasios N., 153
 Vytras, Karel, 959
 Wada, Hiroko, 1405
 Wahbi, Abdel-Aziz M., 563
 Walsh, Mohamed Ibrahim, 955, 1309
 Walton, Andrew P., 1159
 Wandt, Michael Alexander Eich, 783
 Wang, Erkang, 1541
 Wang, Luoqu, 1261
 Ward, Robert W., 1159
 Waris, Riaz, 1465
 Waterfall, Roger C., 337
 Watling, R. J., 345
 Wehrstein, Edith, 451
 West, Norman G., 779
 Whang, Chen-Wen, 1393
 Wheeler, John F., 95
 White, Peter C., 1625
 Whitman, David A., 1821
 Whittle, Peter J., 665
 Wieck, Henry J., 341
 Williams, John G., 1383
 Williams, P. Stephen, 1253
 Williams, Tim, 641
 Willie, Scott N., 159
 Windels, Gervais, 1691
 Wolfbeis, Otto S., 693, 1519
 Wong, Chi Wai, 1415
 Wong, Wai-Chu, 865
 Wood, Christine F., 1635
 Woods, Bruce A., 301
 Worsfold, Paul J., 769
 Worth, Howard G. J., 373
 Wright, David, 813
 Wring, Stephen A., 1785
 Wu, Mae-Lian, 21
 Wu, Ting-guo, 1431
 Wu, Wei S., 1209
 Xiang, Wei-zhi, 1431
 Xiu, Jun-Hua, 355
 Yacynych, Alexander M., 341
 Yagüe, Encarnación, 1057
 Yamamoto, Ayumi, 1695
 Yamamoto, Susumu, 1035
 Yamamoto, Yoshikazu, 389, 773
 Yamasaki, Kuzutomo, 45
 Yamazaki, Sachiko, 1695
 Yan, Jian-Ping, 1329
 Yanai, Naoki, 1405
 Yañez-Sedeño, Paloma, 625
 Yang, Lin-Lan, 1393
 Yang, Zhi-Hong, 355
 Yanni, Amal S., 1091
 Yin, Guanghua, 57
 Yoshimura, Kazuhisa, 471
 Yoshimura, Osamu, 773
 You, Xinkui, 57
 Youssef, Ahmad M. A., 563
 Yuchi, Akio, 1405
 Zaki, M. Tarek M., 577, 937, 1277
 Zambonin, Piec G., 869
 Zappoli, S., 1575
 Zhang, Danian, 139
 Zhang, Fu-zheng, 1431
 Zhang, Yanan, 125
 Zhang, Zhijun, 57
 Zhu, Yi-Ming, 355
 Zhu, Ying-Quan, 1329
 Zhudamoto, 1261

SUBJECT INDEX, 1988

ABSORBANCE RATIO

Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625

ABSORPTIOMETRY

Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471

ACETAZOLAMIDE

Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727

ACETIC ACID

Use of Padé Approximants in the Processing of pH Titration Data. Determination of the Parameters Involved in the Titration of Acetic Acid, 969

Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865

ACID

Compact Teflon Still for Sub-boiling Distillation of Acids, 1145
Spectrophotometric Determination of Iron in Acids, 1341

ACRYLAMIDE

Application of a Novel Strategy for the Recovery and Trace Enrichment of Acrylamide Monomer to its Liquid Chromatographic Determination in Acrylamide Copolymers, 1205

ACTIVATED CARBON

Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831

ACTIVATION ANALYSIS

Simultaneous Determination of Bromine and Chlorine in Cow's Milk by Radioactivation Analysis, 515
Characterisation of Trace Elements in Dry Depositions by Instrumental Neutron Activation Analysis, 1575
Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855

ADDITION METHOD

Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593

ADSORPTIVE STRIPPING VOLTAMMETRY

Reductive Differential-pulse Adsorptive Stripping Voltammetric Determination of Molybdenum as 12-Molybdophosphoric Acid or as Molybdic Acid at a Hanging Mercury Drop Electrode, 361

AIR

High-performance Liquid Chromatographic Determination of Hexamethylenetetramine in Air, 511

ALANINE AMINOTRANSFERASE

Determination of Alanine Aminotransferase and Aspartate Aminotransferase With Immobilised Enzymes and Electrochemical Detection, 1807

ALBUMIN

Fluorimetric Determination of Human Serum Albumin with Eriochrome Cyanine R, 679
Elimination of Avidin Losses in Radioligand-binding Assay, 687

ALCOHOL

Selective Gas Chromatographic Determination of Trace Amounts of Alcohols in Ambient Air, 189
Determination of Low Relative Molecular Mass Alcohols in Gasoline by Gas Chromatography, 907

ALCOHOL POLYETHOXYLATE

Pyrolysis Gas Chromatographic Analysis of Alcohol Polyethoxylates with Hydrobromic Acid Cleavage of the Ether Linkages, 1241

ALCOHOLIC BEVERAGE

Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95

Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99

ALUQUAT 3365

Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781

ALKALOID

PVC Membrane Electrodes of Anisodamine, *N*-Butylscopolamine and Homatropine, 57

ALKYLXANTHATE

High-performance Liquid Chromatographic Separation and Identification of Alkylxanthate Mixtures After Derivatisation with Dimeric Cobalt Dithiocarbamates, 685

ALLOY

Spectrofluorimetric Determination of Gallium with Salicylaldehyde Carbohydrazone and its Application to the Analysis of Biological Samples and Alloys, 443

Use of Salicylaldehyde Carbohydrazone as a Reagent for the Determination of Trace Amounts of Zinc in Biological Samples and Alloys, 547

Determination of Iron in Zircaloy-2 and Zircaloy-4 by Differential-pulse Polarography, 837

Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561

ALUMINA

X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737

ALUMINIUM

Use of Haematoxylin in an Improved Method for the Determination of Ultramicro Amounts of Aluminium, 577

Determination of Trace Amounts of Aluminium by Ion Chromatography with Fluorescence Detection, 641

N-(3-Hydroxy-2-pyridyl)salicylaldehyde as a Reagent for the Selective Fluorimetric Determination of Aluminium in Waters, 1287

Simultaneous Determination of Aluminium and Zinc by First- and Second-derivative Synchronous Fluorimetry, 1435

Determination of Trace Amounts of Aluminium in Tap Water by Spectrophotometry After Collection on a Membrane Filter Using Chromé Azurol S and Zephiramine, 1545

AMETHOPTERINE

Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869

AMINE

Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239

Automated Flow Injection Spectrophotometric Non-aqueous Pseudotitrations of Amines and Their Hydrohalide Salts, 755

Differential-pulse Adsorptive Stripping Voltammetric Method for the Determination of Nitrite at p.p.b. Levels after Diazotisation of Aniline and Coupling with Azulene and its Modification for the Determination of Aromatic Amines, 1337

AMINO ACID

Titration in Non-aqueous Media. Part X. Potentiometric and Conductimetric Titrations of Amino Acids with Tetrabutylammonium Hydroxide in Pyridine and Acetonitrile Solvents, 715

Titration in Non-aqueous Media. Part XIII. Potentiometric and Conductimetric Titrations of α -Amino Acids with Perchloric Acid in Acetic Acid and Acetonitrile - Acetic Acid Solvents, 1313

AMINOANTIPYRINE

Spectrophotometric Determination of 4-Aminoantipyrine in Aqueous Solution by Coupling With Diazotised 4-Nitroaniline, 1661

AMMONIUM

Continuous Flow Determination of Low Concentrations of Ammonium Ions Using a Gas Dialysis Concentrator and a Gas Electrode Detector System, 113

Optimisation of Poly(vinyl chloride) Matrix Membrane Ion-selective Electrodes for Ammonium Ions, 497

Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739

AMMONIUM TUNGSTOANTIMONATE

Polarographic Determination of Free Antimony(III) in Ammonium 5-Tungsto-2-antimonate, 1321

AMPEROMETRY

Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483

Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727

Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541

Oxidative Flow Injection Amperometric Determination of Nitrite at an Electrochemically Pre-treated Glassy Carbon Electrode, 1723

AMPHOTERICIN B

Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563

ANABOLIC STEROID

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

ANILINE

Separation and Determination of Aniline and Substituted Anilinesulphonic Acid Derivatives by Ion-pair Reversed-phase High-performance Liquid Chromatography, 399
Titrations in Non-aqueous Media. Part XI. Basicities of Open-chain and Cyclic Polyether Derivatives of Aniline, 965

ANILINESULPHONIC ACID

Separation and Determination of Aniline and Substituted Anilinesulphonic Acid Derivatives by Ion-pair Reversed-phase High-performance Liquid Chromatography, 399

ANIMAL FEED

Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355
Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813
Determination of Arprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903
Determination of Sulphadimidine in Animal Feeds by High-performance Liquid Chromatography, 1397

ANION-EXCHANGE RESIN

Selective Collection of Fluoride Ion on an Anion-exchange Resin Loaded with Alizarin Fluorine Blue Sulphonate, 829

ANODIC STRIPPING VOLTAMMETRY

Determination of Thiocytosine Using its Enhancement Effect on the Copper Anodic Stripping Wave, 1047
Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431

ANTHELMINTIC

Determination of Mebendazole and its Formulations Using ^1H Nuclear Magnetic Resonance Spectrometry, 599

ANTHRAQUINONE

Spectrophotometric Study of the Complexation Equilibria of Zirconium(IV) With 1-Amino-4-hydroxyanthraquinone and the Determination of Zirconium, 1643

ANTIBIOTIC

Study of the Polarographic Behaviour of Antibiotics. Part II, 21
Electrochemical Reduction of Cefsulodin, 23
Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxymethylpenicillin by Derivative Spectrophotometry, 569
Quantitative and Qualitative Analysis of Saframycins. Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721
Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
Iodimetric Determination of Penicillins by a Triangle Programmed Flow-through Titration Technique, 881
Spectrophotometric Determination of Certain Cephalosporins Using Molybdophosphoric Acid, 1083
Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197
Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541
Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

ANTI-IMMUNOGLOBULIN E

Application of Adsorptive Stripping Voltammetry to the Study of the Reaction of Immunoglobulin E With Anti-immunoglobulin E, 1795

ANTIMONY

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595
Evaluation of Certain Pharmaceuticals with Hexamminecobalt(III) - Tricarbonatocobaltate(III). Part 2. Potentiometric Determination of Some Antimony(III) Compounds, 955
Polarographic Determination of Free Antimony(III) in Ammonium 5-Tungsto-2-antimoniate, 1321
Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567

APPLE

Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667

AROMATIC HYDROCARBON

Determination of Some Two- and Three-ring Aromatic Hydrocarbons by Combined Gas Chromatography - Fluorescence Spectrometry, 1175

ARPRINOCID

Determination of Arprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

ARSENATE

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

ARSENIC

Rapid Ion Chromatographic Separation and Determination of Arsenic(III) - Arsenic(V) and Molybdenum(VI) - Chromium(VI), 179
Determination of Arsenic in Selenium Metal or in the Presence of High Levels of Selenium by Hydride Generation Atomic Absorption Spectrometry, 277
Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159
Rapid Determination of Arsenic in the Presence of Lead in a Zinc Sulphide Matrix by X-ray Fluorescence Spectrometry, 1325

ARSENITE

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

ASCORBIC ACID

Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259
Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximinocyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657

ASHING

Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285

ASPARTAME

Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765

ASPARTATE AMINOTRANSFERASE

Determination of Alanine Aminotransferase and Aspartate Aminotransferase With Immobilised Enzymes and Electrochemical Detection, 1807

ASPIRIN

Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709

ATMOSPHERE

Chemiluminescence Method for the Direct Determination of Sulphur Dioxide, 139
Selective Gas Chromatographic Determination of Trace Amounts of Alcohols in Ambient Air, 189
Determination of Chromium Oxidation State by X-ray Fluorescence Spectrometry: Application to Chromium(VI) and Chromium(III) Determination in Occupational Hygiene Samples, 779
Semicarbazide Hydrochloride as an Absorbing Reagent for the Fixation of Atmospheric Sulphur Dioxide, 825
Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatisation of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid Chromatography, 1209
Characterisation of Trace Elements in Dry Depositions by Instrumental Neutron Activation Analysis, 1575
Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
Improvements to the Ethylene Blue Method for the Determination of Hydrogen Sulphide in Air, 1635

ATOMIC ABSORPTION SPECTROMETRY

Indirect Voltammetric and Atomic Absorption Spectrometric Determination of Caffeine, 121
On-line Pre-concentration and Determination of Lead in Potable Water by Flow Injection Atomic Absorption Spectrometry, 125
Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159
Determination of Arsenic in Selenium Metal or in the Presence of High Levels of Selenium by Hydride Generation Atomic Absorption Spectrometry, 277
Comparison of Methods for the Determination of Selenium in Biological Fluids, 281
Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285

- Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423
- Separation and Concentration of Beryllium by Coprecipitation with Hafnium Hydroxide Prior to Determination by Graphite Furnace Atomic Absorption Spectrometry, 581
- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585
- Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591
- Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159
- On-line Separation of Silver With the Chelate-forming Resin Amberlite XAD-2 - PAR Prior to its Determination by Flame Atomic Absorption Spectrometry, 1571
- Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683
- Micro-sampling Atomic Absorption Spectrometry Using Sample Drops on a Rotating Polytetrafluoroethylene Plate, 1687
- Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
- Acid-soluble Membrane Filter for the Pre-concentration and Electrothermal Atomisation Atomic Absorption Spectrometry Determination of Trace Levels of Cadmium in Water, 1695
- Monohalogenobenzoylhydrazones as Ligands in Extraction - Atomic Absorption Spectrometry, 1699
- ATOMIC EMISSION SPECTROMETRY**
- Determination of Osmium(VIII) in Aqueous Solution by D.c. Argon Plasma Atomic Emission Spectrometry: Interference Studies, 273
- Continuous Hydride Generation in Inductively Coupled Plasma Atomic Emission Spectrometry Using a Dual Platinum Grid Nebuliser System, 345
- Determination of Metals in Sewage Sludge by Inductively Coupled Plasma Atomic Emission Spectrometry Using a Simplified Nitric Acid Digestion Method, 413
- Determination of Trace Amounts of Tin by Hydride Generation Direct Current Plasma Atomic Emission Spectrometry: Interference Reduction by L-Cystine, 1377
- Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567
- AUTOMATION**
- ASE/MS: An Automatic Structure Elucidation System for Organic Compounds Using Mass Spectrometric Data, 1261
- AVIDIN**
- Elimination of Avidin Losses in Radioligand-binding Assay, 687
- AZATHIOPRINE**
- Specific Determination of Azathioprine in Solution by a Spectrophotometric Method and its Application to a Tablet Assay, 1665
- BACKGROUND CORRECTION**
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- BANANA**
- Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225
- BARIUM**
- Characterisation of Poly(vinyl chloride) Barium Ion-selective Electrodes Without an Internal Reference Solution, 1023
- BEER**
- Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95
- BENZODIAZEPINE**
- Determination of Clonazepam by Flow Injection Analysis, 317
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- BENZOPERYLENE**
- Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzo[ghi]perylene Fluorescence Spectra, 1465
- Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869
- BENZOTHIADIAZINE**
- Bromimetric Determination of Some Benzothiadiazine Diuretics in Dosage Forms, 637
- BERYL**
- Extraction - Chromatographic Separation of Beryllium With Bis(2-ethylhexyl)phosphoric Acid, 175
- BERYLLIUM**
- Extraction - Chromatographic Separation of Beryllium With Bis(2-ethylhexyl)phosphoric Acid, 175
- Separation and Concentration of Beryllium by Coprecipitation with Hafnium Hydroxide Prior to Determination by Graphite Furnace Atomic Absorption Spectrometry, 581
- BEVERAGE**
- Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95
- Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99
- Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035
- BILE ACID**
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- BIOLOGICAL MATERIAL**
- Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77
- Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91
- Catalytic Determination of Iodine in Biological Materials, 153
- Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159
- Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171
- High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
- High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247
- Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259
- Comparison of Methods for the Determination of Selenium in Biological Fluids, 281
- Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285
- Spectrophotometric Determination of Boron in Plants Using Monosegmented Continuous Flow Analysis, 289
- Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321
- Measurement of Sodium and Potassium in Clinical Chemistry. A Review, 373
- Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
- Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405
- Spectrofluorimetric Determination of Gallium with Salicylaldehyde Carbohydrazone and its Application to the Analysis of Biological Samples and Alloys, 443
- Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475
- Use of Salicylaldehyde Carbohydrazone as a Reagent for the Determination of Trace Amounts of Zinc in Biological Samples and Alloys, 547
- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585
- Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761

- Microanalysis of Urinary Calculi by Quantitative X-ray Diffraction Procedures, 783
- Static Combustion of Biological Samples Sealed in Glass Tubes as a Preparation for $\delta^{13}\text{C}$ Determination, 817
- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Ceftizoxime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923
- Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217
- Di-2-pyridyl Ketone 2-Furoylhydrazine as a Reagent for the Fluorimetric Determination of Low Concentrations of Gallium and its Application to Biological Samples, 1283
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373
- Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481
- Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N-p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561
- Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747
- Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837
- Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855
- BIOLOGICAL REFERENCE MATERIAL**
- Determination of Nanogram Amounts of Iodine by Chemisorption on Metals and Subsequent Isotope Dilution. Application to Biological Reference Materials, 973
- BIOLOGICAL SENSOR**
- Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77
- BIOSENSOR**
- Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225
- Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419
- Optical Sensors. Part 34. Fibre Optic Glucose Biosensor With an Oxygen Optrode as the Transducer, 1519
- BISMUTH**
- High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201
- BLOOD**
- High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
- Fluorimetric Determination of Calcium in Serum with Calcein Blue, 251
- Determination of Orotic Acid (Vitamin B_{13}) in Human Serum and Urine by Differential-pulse Polarography, 321
- Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
- Determination of Thiocyanate in Human Serum by Ion Chromatography, 389
- Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475
- Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- Determination of Sulphide in Blood with an Ion-selective Electrode by Pre-concentration of Trapped Sulphide in Sodium Hydroxide Solution, 839
- Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Determination of Methanesulphonyl Fluoride in Blood Matrix With a Fluoride Ion-selective Electrode, 1485
- Voltammetric Behaviour of All-*trans*-retinol (Vitamin A_1) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
- Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855
- BORIC ACID**
- Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821
- BORON**
- Spectrophotometric Determination of Boron in Plants Using Monosegmented Continuous Flow Analysis, 289
- Spectrophotometric Determination of Boron in Water with Prior Distillation and Hydrolysis of the Methyl Borate, 1069
- Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631
- BROME**
- Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589
- BROMIMETRY**
- Bromimetric Determination of Some Benzothiadiazine Diuretics in Dosage Forms, 637
- BROMINE**
- Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405
- Simultaneous Determination of Bromine and Chlorine in Cow's Milk by Radioactivation Analysis, 515
- BROWNING**
- Spectrophotometric Determination of Browning Products of Glycation of Protein Amino Groups Based on Their Reactivity with Nitro Blue Tetrazolium Salts, 1101
- BUFFER**
- Reliable pH Standards, 683
- CADMIUM**
- On-line Method for Overcoming Phosphate Interference in the Automated Cadmium Reduction Method for the Determination of Nitrate, 297
- Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595
- Spectrophotometric and Spectrofluorimetric Determination of the Ternary Complexes of Cadmium(II) and Zinc(II) with 2,2'-Bipyridine and Rose Bengal Extra, 941
- Simultaneous Determination of Cadmium, Indium and Tin in Standard Reference Materials Using Sub-stoichiometric Extraction of Indium Radioisotopes, 1121
- Use of a Cadmium - New Cadion - Emulsifier OP Complex for the Spectrophotometric Determination of Available Cadmium in Acidic Soils, 1329
- Acid-soluble Membrane Filter for the Pre-concentration and Electrothermal Atomisation Atomic Absorption Spectrometric Determination of Trace Levels of Cadmium in Water, 1695
- CAFFEINE**
- Indirect Voltammetric and Atomic Absorption Spectrometric Determination of Caffeine, 121
- CALCIUM**
- High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247
- Fluorimetric Determination of Calcium in Serum with Calcein Blue, 251
- Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285
- Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633
- CALCULI**
- Microanalysis of Urinary Calculi by Quantitative X-ray Diffraction Procedures, 783
- CARBAMATE**
- Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

CARBARYL

Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

CARBOHYDRATE

Observations on the 4-Hydroxybenzoylhydrazide Methods for the Determination of Carbohydrates, 841

CARBON FIBRE ELECTRODE

Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87

Practical Applications of Carbon Fibre Electrodes, 705

CARBON ISOTOPE RATIO

Static Combustion of Biological Samples Sealed in Glass Tubes as a Preparation for $\delta^{13}\text{C}$ Determination, 817

CARBON PASTE ELECTRODE

Determination of Copper(II) with a Carbon Paste Electrode Modified with an Ion-exchange Resin, 41

Comparative Study of the Electrochemical Behaviour of Sepiolite and Hectorite Modified Carbon Paste Electrodes in the Determination of Dinocap, 621

Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715

Determination of Flunitrazepam by Differential-pulse Voltammetry Using a Bentonite-modified Carbon Paste Electrode, 1719

CARBOXYLIC ACID

Titration in Non-aqueous Media. Part XII. Potentiometric Titrations of Symmetrical Aliphatic Dicarboxylic Acids and Some of Their Binary Mixtures in Different Media, 1017

Flow Injection Determination of Drugs by Specific Detection of Carboxylic Acids, 1673

CARCINOGEN

Spectrofluorimetric Determination of *N*-Nitroso-*N*-methylurea With Sodium Sulphide, Taurine and *o*-Phthalaldehyde, 1669

CARNITINE

Direct ^1H NMR Determination of the Enantiomeric Excess of Carnitine, 1143

CASEIN

Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87

CATALASE

Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811

CATALYSIS

Catalytic Effect of Mercury(II) on the Photo-oxidation of EDTA by Iodine: Kinetic Determination of Mercury, 145

Catalytic Determination of Iodine in Biological Materials, 153

Kinetic - Spectrophotometric Determination of Manganese(II) at the Nanogram Level Based on its Catalytic Effect on the Oxidation of an Azo Dye with Hydrogen Peroxide, 433

Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437

Determination of Trace Amounts of Mercury(II) and Silver(I): a Catalytic Method, 983

Flow Injection Spectrophotometric Determination of Copper(II) Using the Iron(III) - Thiosulphate Catalytic Reaction, 1827

CATALYST

Thermogravimetric Determination of Chlorine in Reforming Catalysts, 669

CATALYTIC TITRIMETRY

Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373

CATHODIC STRIPPING VOLTAMMETRY

Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869

Determination of Total Sulphur in Ethanol by Reduction Using Raney Nickel and Detection by Cathodic Stripping Voltammetry, 1427

CEFMENOXIME

Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899

CEFOTAXIME

Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899

CEFSULODIN

Electrochemical Reduction of Cefsulodin, 23

CEFTIZOXIME

Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899

CEFUROXIME

"Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077

CELERY

Determination of Fentin Residues in Potatoes and Celery, 1237

CEMENT

Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523

CENTRIFUGAL ANALYSIS

Determination of Chloride in Surface and Groundwater by Centrifugal Analysis, 307

CEPHALOSPORIN

Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651

Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899

"Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077

Spectrophotometric Determination of Certain Cephalosporins Using Molybdophosphoric Acid, 1083

CEPHALIRIN

"Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077

CERAMIC

X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737

CERIUM ARSENITE

Studies on Inorganic Ion Exchangers. Part 1. Preparation, Properties and Application of Cerium(IV) Arsenite, 1141

CHEESE

Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605

CHELATE

Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773

CHELATION

Pre-column Chelation with 8-Hydroxyquinoline for the Simultaneous Determination of Metal Ions by Reversed-phase High-performance Liquid Chromatography, 805

CHEMICAL SENSOR

Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457

Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525

CHEMILUMINESCENCE

Chemiluminescence Method for the Direct Determination of Sulphur Dioxide, 139

Continuous-flow Chemiluminescence Determination of Sulphite and Sulphur Dioxide, 603

Prospects of Using Chemiluminescence Emission Generated During Oxidation of Pyrogallol with Periodate for the Determination of Pyrogallol with Flow Injection, 1051

CHEMISORPTION

Determination of Nanogram Amounts of Iodine by Chemisorption on Metals and Subsequent Isotope Dilution. Application to Biological Reference Materials, 973

CHEMOMETRICS

Variation of Precision With Concentration in an Analytical System, 1579

CHLORAMPHENICOL

Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171

Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

CHLORANILATE SALTS

Common Ion Effect in the Determination of Solubility Products by Means of Known Addition Potentiometry, 1743

CHLORIDE

Determination of Chloride in Surface and Groundwater by Centrifugal Analysis, 307

Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589

Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821

CHLORIDE SENSOR

Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525

CHLORINE

- Simultaneous Determination of Bromine and Chlorine in Cow's Milk by Radioactivation Analysis, 515
 Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523
 Thermogravimetric Determination of Chlorine in Reforming Catalysts, 669
 Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739

CHLORONITROBENZENE

- Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799

CHLOROPERBENZOIC ACID

- Gas - Liquid Chromatographic Method for the Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide. Part 2. Determination in Alkaline Solutions, 793

CHLORPROMAZINE

- High-performance Liquid Chromatographic Determination of Chlorpromazine and its Degradation Products in Pharmaceutical Dosage Forms: A Stability-indicating Assay, 233
 Spectrophotometric Method for the Determination of Thallium(III) With Chlorpromazine Hydrochloride, 1649

CHLORTHALIDONE

- Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223

CHOLATE

- Polymeric Membrane Cholate-selective Electrode, 325

CHOLESTEROL

- Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419

CHOLINE

- Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77

CHROMATOGRAPHY

- Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91
 Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95
 Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99
 Determination of Steroids Using Rapid High-performance Liquid Chromatography with Diode Array Detection, 165
 Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171
 Extraction - Chromatographic Separation of Beryllium With Bis(2-ethylhexyl)phosphoric Acid, 175
 Rapid Ion Chromatographic Separation and Determination of Arsenic(III) - Arsenic(V) and Molybdenum(VI) - Chromium(VI), 179
 Simultaneous Determination of Selected Transition Metal Cations and Inorganic Anions by Ion Chromatography, 183
 Selective Gas Chromatographic Determination of Trace Amounts of Alcohols in Ambient Air, 189
 Determination of the Fungicide Tricyclazole in River Water, Soil and Animal Samples, 193
 Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213
 High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
 High-performance Liquid Chromatographic Determination of Chlorpromazine and its Degradation Products in Pharmaceutical Dosage Forms: A Stability-indicating Assay, 233
 Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239
 Determination of Mercury(II) and Organomercury Compounds by Reversed-phase Liquid Chromatography with Reductive Electrochemical Detection, 243
 High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247
 Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
 Determination of Thiocyanate in Human Serum by Ion Chromatography, 389
 Determination of Endogenous Vitamin K (Phylloquinone and Menaquinone-*n*) in Plasma by High-performance Liquid Chromatography Using Platinum Oxide Catalyst Reduction and Fluorescence Detection, 393
 Separation and Determination of Aniline and Substituted Anilinesulphonic Acid Derivatives by Ion-pair Reversed-phase High-performance Liquid Chromatography, 399

- High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509

- High-performance Liquid Chromatographic Determination of Hexamethylenetetramine in Air, 511

- Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645

- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651

- Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657

- Determination of Formaldehyde in River Water by

- High-performance Liquid Chromatography, 665

- Determination of Naphthaleneacetic Acid Residue in Apples by

- High-performance Liquid Chromatography, 667

- High-performance Liquid Chromatographic Separation and Identification of Alkylxanthate Mixtures After Derivatisation with Dimeric Cobalt Dithiocarbamates, 685

- Quantitative and Qualitative Analysis of Saframycins.

- Polarographic and Voltammetric Behaviour and Direct

- Polarographic Determination of Saframycin A in Fermentation

- Broth and the High-performance Liquid Chromatographic

- Determination of Various Saframycins, 721

- Some Applications of the Surface Ionisation Detector in Gas Chromatography, 789

- Gas - Liquid Chromatographic Method for the Determination of Peracids in the Presence of a Large Excess of Hydrogen

- Peroxide. Part 2. Determination in Alkaline Solutions, 793

- Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

- Pre-column Chelation with 8-Hydroxyquinoline for the Simultaneous Determination of Metal Ions by Reversed-phase

- High-performance Liquid Chromatography, 805

- Enhanced Fluorescence of Ergosterol by Iodination and

- Determination of Ergosterol by Fluorodensitometry, 809

- Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection

- After Separation by Thin-layer Chromatography, 899

- Determination of Aprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

- Determination of Low Relative Molecular Mass Alcohols in Gasoline by Gas Chromatography, 907

- Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIV. Monographs for Five Essential Oils, 1125

- Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159

- Speciation of Mercury Using Liquid Chromatography with

- Detection by Inductively Coupled Plasma Mass Spectrometry, 1167

- Systematic Approach to Coupled Gas Chromatography Fourier Transform Infrared Spectroscopy Using Two Wide Bore Capillary Columns, 1171

- Determination of Some Two- and Three-ring Aromatic Hydrocarbons by Combined Gas Chromatography - Fluorescence Spectrometry, 1175

- Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

- Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189

- Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column

- Derivatisation with 1-Hydroxybenzotriazole, 1197

- High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with

- 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201

- Application of a Novel Strategy for the Recovery and Trace

- Enrichment of Acrylamide Monomer to its Liquid Chromatographic Determination in Acrylamide Copolymers, 1205

- Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine

- for Calibration and Derivatisation of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid

- Chromatography, 1209

- Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry

- and High-performance Liquid Chromatography, 1213

- Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by

- High-performance Liquid Chromatography, 1217

- Determination of Chlorthalidone in Human Plasma by

- Reversed-phase Micellar Liquid Chromatography, 1223

- Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229
- Determination of Airborne Dioxitol Vapour by Charcoal Tube Sampling and Gas - Liquid Chromatographic Analysis, 1235
- Determination of Fentin Residues in Potatoes and Celery, 1237
- Pyrolysis Gas Chromatographic Analysis of Alcohol Polyethoxylates with Hydrobromic Acid Cleavage of the Ether Linkages, 1241
- Separation of Dansylamino Acid Enantiomers by Thin-layer Chromatography, 1245
- Photometric Determination of Cationic Surfactants, 1249
- Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393
- Determination of Sulphadiazine in Animal Feeds by High-performance Liquid Chromatography, 1397
- Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493
- Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589
- Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605
- Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
- Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625
- Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631
- Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747
- Advances in the Analytical Chromatography of the Lanthanides. A Review, 1757
- Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781
- Voltammetric Behaviour of All-*trans*-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
- Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791
- Comparison of Two Calculation Procedures for Gas Chromatography - Mass Spectrometry Associated With Stable Isotope Dilution, 1843
- Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875
- CHROMATOGRAPHY ALLOY**
- Determination of Trace Amounts of Aluminium by Ion Chromatography with Fluorescence Detection, 641
- CHROMIUM**
- Rapid Ion Chromatographic Separation and Determination of Arsenic(III) - Arsenic(V) and Molybdenum(VI) - Chromium(VI), 179
- Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471
- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585
- Determination of Chromium Oxidation State by X-ray Fluorescence Spectrometry: Application to Chromium(VI) and Chromium(III) Determination in Occupational Hygiene Samples, 779
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057
- CHROMOTROPIC ACID**
- Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631
- CHRONOPOTENTIOMETRY**
- Chronopotentiometry at a Tubular Graphite Electrode. Part 2. Experimental Verification of Theoretical Results, 493
- CHRYSOIDINE DYE**
- Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
- CIGARETTE SMOKE**
- Evaluation of an Apparatus Designed for the Collection of Sidestream Tobacco Smoke, 1509
- CINCHONINE**
- Determination of Cinchonine and Quinidine in Mixtures by Zero-crossing First-derivative Spectrofluorimetry, 929
- CISPLATIN**
- Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791
- CITRIC ACID**
- Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781
- CLAVULANIC ACID**
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- CLEMASTINE FUMARATE**
- Derivative Spectrophotometric Determination of Clemastine Fumarate in Pharmaceutical Preparations, 1137
- CLINICAL**
- Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171
- High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
- High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247
- Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321
- Measurement of Sodium and Potassium in Clinical Chemistry. A Review, 373
- Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475
- Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591
- Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- Microanalysis of Urinary Calculi by Quantitative X-ray Diffraction Procedures, 783
- Determination of Sulphide in Blood with an Ion-selective Electrode by Pre-concentration of Trapped Sulphide in Sodium Hydroxide Solution, 839
- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- Spectrophotometric Determination of Browning Products of Glycation of Protein Amino Groups Based on Their Reactivity with Nitro Blue Tetrazolium Salts, 1101
- Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- Determination of Methanesulphonyl Fluoride in Blood Matrix With a Fluoride Ion-selective Electrode, 1485
- Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715
- CLIOQUINOL**
- Spectrophotometric Determination of Clioquinol and Diodoquin in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- CLONAZEPAM**
- Determination of Clonazepam by Flow Injection Analysis, 317
- CLOTIAZEPAM**
- Differential-pulse Adsorptive Stripping Voltammetry of the Psychotropic Drugs Triazolam and Clotiazepam, 27
- CLOZAPINE**
- Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715

COAL

Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401

COAL TAR

Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

COBALT

Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595

Simultaneous Determination of Cobalt and Nickel by First-derivative Spectrophotometry, 1439

COCAINE

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

COCCIDIOSTAT

Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

Determination of Arprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

COLLABORATIVE STUDY

Determination of Arprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIV. Monographs for Five Essential Oils, 1125

COLOURING MATTER

Use of Gelatin in the Differential-pulse Polarographic Determination and Identification of Synthetic Colouring Matters in Drugs and Cosmetics, 853

COMBUSTION

Static Combustion of Biological Samples Sealed in Glass Tubes as a Preparation for $\delta^{13}\text{C}$ Determination, 817

COMPLEX

Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633

Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733

COMPLEXATION EQUILIBRIA

Spectrophotometric Study of the Complexation Equilibria of Zirconium(IV) With 1-Amino-4-hydroxyanthraquinone and the Determination of Zirconium, 1643

COMPUTER

ASES/MS: An Automatic Structure Elucidation System for Organic Compounds Using Mass Spectrometric Data, 1261

Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691

CONCRETE

Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523

CONDUCTIMETRY

Titration in Non-aqueous Media. Part XIII. Potentiometric and Conductimetric Titrations of α -Amino Acids with Perchloric Acid in Acetic Acid and Acetonitrile - Acetic Acid Solvents, 1313

CONDUCTING POLYMER

Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525

CONDUCTIVITY

Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739

CONFIDENCE LIMITS

Basic Statistical Methods for Analytical Chemistry. Part I. Statistics of Repeated Measurements. A Review, 1351

CONTINUOUS FLOW

Continuous Flow Determination of Low Concentrations of Ammonium Ions Using a Gas Dialysis Concentrator and a Gas Electrode Detector System, 113

Spectrophotometric Determination of Boron in Plants Using Monosegmented Continuous Flow Analysis, 289

Simple Digital Counter for Use with Monosegmented Continuous Flow Analysis and Related Techniques, 295

Continuous Flow Solvent Extraction System for the Determination of Trace Amounts of Uranium in Nuclear Waste Reprocessing Solutions, 463

Continuous Flow Determination of Sulphate With a Lead-selective Electrode, 1817

COPPER

Determination of Copper(II) with a Carbon Paste Electrode Modified with an Ion-exchange Resin, 41

Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423

Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773

Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891

Flow Injection Spectrophotometric Determination of Copper(II) Using the Iron(III) - Thiosulphate Catalytic Reaction, 1827

COPPER - ZINC INTERFERENCE

Study of the Copper - Zinc Interference in Potentiometric Stripping Analysis, 1529

COPRECIPITATION

Separation and Concentration of Beryllium by Coprecipitation with Hafnium Hydroxide Prior to Determination by Graphite Furnace Atomic Absorption Spectrometry, 581

CORRELATION COEFFICIENT

Uses (Proper and Improper) of Correlation Coefficients, 1469

CORRELLOGRAM

Comparative Study of Methods of Linearisation and Scatter Correction in Near Infrared Reflectance Spectroscopy, 263

CORTICOSTEROID

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

COSMETIC

Use of Gelatin in the Differential-pulse Polarographic Determination and Identification of Synthetic Colouring Matters in Drugs and Cosmetics, 853

COUNTER

Simple Digital Counter for Use with Monosegmented Continuous Flow Analysis and Related Techniques, 295

CROWN ETHER

Guanidinium Ion-selective Electrodes Based on

Dibenzo-27-crown-9 and Tetraphenylborate, 61

Studies on Crown Ether Based Potentiometric Sensors for

4,4'-Dipyridinium and Related Dications, 65

Comparison of the Selectivity of Propeller Crowns in Poly(vinyl chloride) Membrane Ion-selective Electrodes, 895

CURVE FITTING

Possibilities of Application of Some New Algorithms for Standardisation Purposes; Standardisation of Sodium Hydroxide Solution Against Commercial Potassium Hydrogen Phthalate, 833

Use of Padé Approximants in the Processing of pH Titration Data. Determination of the Parameters Involved in the Titration of Acetic Acid, 969

CYANIDE

Determination of Low Sulphide and Cyanide Levels in Biochemical and Environmental Control Using a Deposited-on-Wire Ag - Ag₂S Electrode, 71

Kinetic - Spectrophotometric Determination of Low Cyanide Concentrations in the Presence of Large Amounts of Thiocyanate, 573

Spectrophotometric Method for the Determination of Total Cyanide in Wastewater Samples, 1273

CYCLIZINE

Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385

CYSTEINE

Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzene. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259

Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373

CYSTINE

Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373

CYTOCHROME P₄₅₀

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

DAIRY PRODUCT

Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217

DANSYLAMINO ACID

Separation of Dansylamino Acid Enantiomers by Thin-layer Chromatography, 1245

DECOMPOSITION

Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285

DERIVATIVE SPECTROSCOPY

Determination of Neodymium with 1-(2-Pyridylazo)-2-Naphthol by High-order Derivative Spectrophotometry. Application to the Determination of Neodymium in Glasses, 429

Spectrophotometric and Analogue Derivative Spectrophotometric Determination of Rhodium(III) with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)phenol, 519

- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part I. Spectral Changes and Uncorrected Temperature Coefficients, 533
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part II. Effect of Experimental Parameters on the Observed Temperature Coefficients, 537
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part III. Correction of Temperature Coefficients for Solvent Scatter Interference, 543
- Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxymethylpenicillin by Derivative Spectrophotometry, 569
- Determination of Cinchonine and Quinidine in Mixtures by Zero-crossing First-derivative Spectrofluorimetry, 929
- "Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077
- Derivative Spectrophotometric Determination of Clemastine Fumarate in Pharmaceutical Preparations, 1137
- Simultaneous Determination of Aluminium and Zinc by First- and Second-derivative Synchronous Fluorimetry, 1435
- Simultaneous Determination of Cobalt and Nickel by First-derivative Spectrophotometry, 1439
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- Use of 4-(6-Methylnaphthalen-2-yl)-4-oxobut-2-enoic Acid as a Reagent for the Spectrophotometric and Fluorimetric Determination of Aliphatic Thiol Drugs, 1447
- DESACETYLCEFOTAXIME**
- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899
- DETECTOR**
- Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483
- Some Applications of the Surface Ionisation Detector in Gas Chromatography, 789
- DIAZEPAM**
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- DIETHYLENE GLYCOL MONOETHYL ETHER**
- Determination of Airborne Dioxitol Vapour by Charcoal Tube Sampling and Gas - Liquid Chromatographic Analysis, 1235
- DIFFERENTIAL-PULSE VOLTAMMETRY**
- Reductive Differential-pulse Adsorptive Stripping Voltammetric Determination of Molybdenum as 12-Molybdophosphoric Acid or as Molybdic Acid at a Hanging Mercury Drop Electrode, 361
- DIFFUSE REFLECTANCE**
- Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457
- DIGESTION**
- Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159
- Effect of Heating Appliance Type on Parr Bomb Temperature Response Performance, 201
- DIGITAL COUNTER**
- Simple Digital Counter for Use with Monosegmented Continuous Flow Analysis and Related Techniques, 295
- DIMETHOXYNITROPHENYLAMINOPROPANE**
- Electrochemical Study of the Hallucinogen (\pm)-1-(2,5-Dimethoxy-4-nitrophenyl)-2-aminopropane, 859
- DINOCAP**
- Comparative Study of the Electrochemical Behaviour of Sepiolite and Hectorite Modified Carbon Paste Electrodes in the Determination of Dinocap, 621
- DIODE-ARRAY DETECTION**
- Determination of Selenium by Hydride Generation Ultraviolet - Visible Molecular Absorption Spectrometry With Diode-array Detection, 1387
- DIODOQUIN**
- Spectrophotometric Determination of Clotrimazole and Diodoquin in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- DIOXITOL**
- Determination of Airborne Dioxitol Vapour by Charcoal Tube Sampling and Gas - Liquid Chromatographic Analysis, 1235
- DIPIPANONE**
- Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
- DIPYRIDINIUM**
- Studies on Crown Ether Based Potentiometric Sensors for 4,4'-Dipyridinium and Related Dications, 65
- DIRECT CURRENT PLASMA**
- Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567
- DIRECT RATE MEASUREMENT**
- Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733
- DISTILLATION**
- Compact Teflon Still for Sub-boiling Distillation of Acids, 1145
- DITHIONATE**
- Spectrophotometric Determination of Sulphite, Sulphate and Dithionate in the Presence of Each Other, 351
- DITHIZONE**
- Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831
- DIURETIC**
- Spectrophotometric Methods for the Determination of Some Diuretics Using 3-Methyl-2-benzothiazolinone Hydrazone, 255
- DRUG**
- Study of the Polarographic Behaviour of Antibiotics. Part II, 21
- Electrochemical Reduction of Cefsulodin, 23
- Differential-pulse Adsorptive Stripping Voltammetry of the Psychotropic Drugs Triazolam and Clotiazepam, 27
- PVC Membrane Electrodes of Anisodamine, *N*-Butylscopolamine and Homatropine, 57
- Electrochemical Reduction of Some 1,4-Thienodiazepines at a Glassy Carbon Electrode, 109
- Indirect Voltammetric and Atomic Absorption Spectrometric Determination of Caffeine, 121
- Application of 3-Methylbenzothiazolin-2-one Hydrazone as a Chromogenic Reagent for the Spectrophotometric Determination of Certain Sulpha Drugs, 133
- Kinetic Determination of Propranolol in Drug Formulations, 149
- Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171
- High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
- High-performance Liquid Chromatographic Determination of Chlorpromazine and its Degradation Products in Pharmaceutical Dosage Forms: A Stability-indicating Assay, 233
- Spectrophotometric Methods for the Determination of Some Diuretics Using 3-Methyl-2-benzothiazolinone Hydrazone, 255
- Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259
- Determination of Clonazepam by Flow Injection Analysis, 317
- Polymeric Membrane Cholate-selective Electrode, 325
- Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
- Stopped-flow Fluorimetric Determination of Theophylline in Pharmaceutical Preparations, 559
- Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563
- Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxymethylpenicillin by Derivative Spectrophotometry, 569
- Bromimetric Determination of Some Benzothiadiazine Diuretics in Dosage Forms, 637
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727
- Automated Flow Injection Spectrophotometric Non-aqueous Pseudotitrations of Amines and Their Hydrohalide Salts, 755
- Use of Gelatin in the Differential-pulse Polarographic Determination and Identification of Synthetic Colouring Matters in Drugs and Cosmetics, 853
- Electrochemical Study of the Hallucinogen (\pm)-1-(2,5-Dimethoxy-4-nitrophenyl)-2-aminopropane, 859
- Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865
- Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869
- Iodimetric Determination of Penicillins by a Triangle Programmed Flow-through Titration Technique, 881
- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Cefprozime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899
- Determination of Cinchonine and Quinidine in Mixtures by Zero-crossing First-derivative Spectrofluorimetry, 929
- Evaluation of Certain Pharmaceuticals with Hexamminecobalt(III) - Tricarbonylcobaltate(III). Part 2. Potentiometric Determination of Some Antimony(III) Compounds, 955
- Determination of Thiocytosine Using its Enhancement Effect on the Copper Anodic Stripping Wave, 1047

- "Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077
- Spectrophotometric Determination of Certain Cephalosporins Using Molybdophosphoric Acid, 1083
- Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087
- Spectrophotometric Determination of Isoniazid Using 6,7-Dichloroquinoline-5,8-dione, 1091
- Spectrophotometric Determination of Pyridoxine Hydrochloride in Pharmaceutical Samples, 1097
- Derivative Spectrophotometric Determination of Clemastine Fumarate in Pharmaceutical Preparations, 1137
- Direct ^1H NMR Determination of the Enantiomeric Excess of Carnitine, 1143
- Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189
- Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197
- Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223
- Spectrophotometric Determination of Some Phenothiazine Drugs Using 3-Methylbenzothiazolin-2-one Hydrazine, 1267
- Titrimetric Determination of Some Thioxanthene Derivatives, 1309
- Spectrophotometric Determination of *N*-Nitroso Compounds by Flow Injection Analysis, 1333
- Titrimetric Methods for the Determination of Some Sulpha Drugs Using *N*-Bromophthalimide and *N*-Bromosaccharin, 1369
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- Use of 4-(6-Methylnaphthalen-2-yl)-4-oxobut-2-enoic Acid as a Reagent for the Spectrophotometric and Fluorimetric Determination of Aliphatic Thiol Drugs, 1447
- Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541
- Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625
- Spectrophotometric Determination of Cloiquinol and Diodoquin in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximino-cyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657
- Spectrophotometric Determination of 4-Aminoantipyrine in Aqueous Solution by Coupling With Diazotised 4-Nitroaniline, 1661
- Specific Determination of Azathioprine in Solution by a Spectrophotometric Method and its Application to a Tablet Assay, 1665
- Flow Injection Determination of Drugs by Specific Detection of Carboxylic Acids, 1673
- Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709
- Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715
- Determination of Flunitrazepam by Differential-pulse Voltammetry Using a Bentonite-modified Carbon Paste Electrode, 1719
- Spectrophotometric Determination of Maprotiline Hydrochloride, 1745
- Simple and Rapid Gas Chromatographic Determination of Valproic Acid in Plasma, 1873
- Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875
- DYE**
- Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
- DYSPROSIUM**
- Fluorescence Reactions of the Dysprosium(III) - Tiron - Calcium(II) Mixed-metal Complex, 933
- ELECTROCHEMICAL DETECTION**
- Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91
- ELECTROCHEMICAL REDUCTION**
- Electrochemical Reduction of Some 1,4-Thienodiazepines at a Glassy Carbon Electrode, 109
- ELECTROCHEMISTRY**
- Determination of Water in Acetonitrile, Propionitrile, Dimethylformamide and Tetrahydrofuran by Infrared and Near-infrared Spectrometry, 1729
- ELECTRODE**
- Application of a Controlled-growth Mercury Drop Electrode to Polarography, 15
- Evaluation of Iridium Oxide Electrodes Formed by Potential Cycling as pH Probes, 35
- Determination of Copper(II) with a Carbon Paste Electrode Modified with an Ion-exchange Resin, 41
- Copper(II)-selective Electrodes Based on Macrocyclic Polythiaethers, 45
- Effect of Temperature on the Response Characteristics of Ion-selective Electrodes Based on Solid Silver Salts Applied to Electrically Conductive Epoxy Supports, 49
- PVC Membrane Electrodes of Anisodamine, *N*-Butylscopolamine and Homatropine, 57
- Guanidinium Ion-selective Electrodes Based on Dibenzo-27-crown-9 and Tetraphenylborate, 61
- Studies on Crown Ether Based Potentiometric Sensors for 4,4'-Dipyridinium and Related Dications, 65
- Determination of Low Sulphide and Cyanide Levels in Biochemical and Environmental Control Using a Deposited-on-Wire Ag - Ag₂S Electrode, 71
- Chemically Immobilised Tri-enzyme Electrode for the Determination of Sucrose Using Flow Injection Analysis, 81
- Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87
- Electrochemical Reduction of Some 1,4-Thienodiazepines at a Glassy Carbon Electrode, 109
- Continuous Flow Determination of Low Concentrations of Ammonium Ions Using a Gas Dialysis Concentrator and a Gas Electrode Detector System, 113
- Determination of Ionic Surfactants by Flow Injection Pseudotitration, 117
- Polymeric Membrane Cholate-selective Electrode, 325
- Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483
- Parabolic Flow Velocity Distribution in Electrolysis with Flow-through Porous Electrodes, 489
- Chronopotentiometry at a Tubular Graphite Electrode. Part 2. Experimental Verification of Theoretical Results, 493
- Optimisation of Poly(vinyl chloride) Matrix Membrane Ion-selective Electrodes for Ammonium Ions, 497
- Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501
- Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523
- Platinum-dispersed Nafion-modified Glassy Carbon Electrode for the Determination of Hydrogen Peroxide in a Flow Injection System, 617
- Comparative Study of the Electrochemical Behaviour of Sepiolite and Hectorite Modified Carbon Paste Electrodes in the Determination of Dinocap, 621
- Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625
- Poly(vinyl chloride) Matrix Membrane Uranyl Ion-selective Electrodes Based on Organophosphorus Sensors, 699
- Practical Applications of Carbon Fibre Electrodes, 705
- Performance Testing of pH Electrodes Suitable for Low Ionic Strength Solutions, 709
- Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Determination of Sulphide in Blood with an Ion-selective Electrode by Pre-concentration of Trapped Sulphide in Sodium Hydroxide Solution, 839
- Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
- Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865
- Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869
- Determination of Sulphide Using Flow Injection Analysis with a Coated Tubular Solid-state Silver Sulphide Ion-selective Electrode, 885
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891
- Comparison of the Selectivity of Propeller Crowns in Poly(vinyl chloride) Membrane Ion-selective Electrodes, 895
- Titration of Bivalent Metal Ions with Sodium Tetraphenylborate in the Presence of Polyethylene Glycol, 959
- Characterisation of Poly(vinyl chloride) Barium Ion-selective Electrodes Without an Internal Reference Solution, 1023
- Solvent Polymeric Membranes Combined with Chemical Solid-state Sensors, 1029
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035

- Enhanced Performance of Ion-selective Electrodes in Flow Injection Analysis: Non-Nernstian Response, Indirect Determination, Differential Detection and Modified Reverse Flow Injection Analysis, 1039
- Alkali and Alkaline Earth Metal Ion-sensing Studies on Two Disubstituted Diphenyl Ethers of Tetraethylene Glycol, 1295
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305
- Gold - Chloride Electrodes for Voltammetric Analyses, 1339
- Tiron as a Masking Reagent for Aluminium in the Determination of Fluoride With an Ion-selective Electrode: Equilibrium Studies and Application, 1405
- Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409
- Tetraheptylammonium Hydrogen Phthalate Membrane Electrodes for the Determination of Plasticiser in Poly(vinyl chloride), 1415
- Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419
- Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431
- Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525
- Transient Responses of Glass Electrodes in Dilute Solutions and Freshwaters, 1537
- Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709
- Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715
- Determination of Flunitrazepam by Differential-pulse Voltammetry Using a Bentonite-modified Carbon Paste Electrode, 1719
- Oxidative Flow Injection Amperometric Determination of Nitrite at an Electrochemically Pre-treated Glassy Carbon Electrode, 1723
- Voltammetric Behaviour of All-trans-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
- Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds With Heteroatoms. Part II. Complexing Compounds Containing Sulphur Atoms, 1803
- Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811
- Continuous Flow Determination of Sulphate With a Lead-selective Electrode, 1817
- Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865
- ELECTROLYSIS**
- Parabolic Flow Velocity Distribution in Electrolysis with Flow-through Porous Electrodes, 489
- ELECTRON PROBE MICROANALYSIS**
- Characterisation of Highly Ordered Pyrolytic Graphite with Covalently Attached Ferritin by Electron Probe Microanalysis, 341
- ELECTROPHORESIS**
- Potentiometric Monitoring of Proteins. Part IV. Application to Electrophoresis Gels, 875
- ELECTROPLATING BATH**
- Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821
- ELECTROTHERMAL ATOMISATION**
- Acid-soluble Membrane Filter for the Pre-concentration and Electrophoretic Atomic Absorption Spectrometric Determination of Trace Levels of Cadmium in Water, 1695
- EMULSION**
- Influence of Surfactants on the Gasoline - Water Emulsion. Polarography of Lead and the Determination of Lead in Gasoline, 613
- Analytical Applications of Microemulsions. Spectrophotometric Determination of Zinc Using Dithizone, 769
- ENANTIOMERIC EXCESS**
- Direct ¹H NMR Determination of the Enantiomeric Excess of Carnitine, 1143
- ENTHALPIMETRY**
- Determination of Ethanol Using Flow Injection Enthalpimetry, 359
- ENVIRONMENTAL ANALYSIS**
- Chemiluminescence Method for the Direct Determination of Sulphur Dioxide, 139
- Selective Gas Chromatographic Determination of Trace Amounts of Alcohols in Ambient Air, 189
- Determination of the Fungicide Trycylazole in River Water, Soil and Animal Samples, 193
- Determination of Chromium Oxidation State by X-ray Fluorescence Spectrometry: Application to Chromium(VI) and Chromium(III) Determination in Occupational Hygiene Samples, 779
- Semicarbazide Hydrochloride as an Absorbing Reagent for the Fixation of Atmospheric Sulphur Dioxide, 825
- Re-examination of the Determination of Environmental Nitrate as Nitrite by Reduction with Hydrazine, 1117
- Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatisation of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid Chromatography, 1209
- Spectrophotometric Method for the Determination of Total Cyanide in Wastewater Samples, 1273
- Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481
- Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561
- Characterisation of Trace Elements in Dry Depositions by Instrumental Neutron Activation Analysis, 1575
- Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
- Improvements to the Ethylene Blue Method for the Determination of Hydrogen Sulphide in Air, 1635
- ENVIRONMENTAL POLLUTION**
- Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdosulphate Complex, 1639
- Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683
- ENZYME**
- Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- Multi-function Valve for Flow Injection Analysis, 731
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- Determination of Alanine Aminotransferase and Aspartate Aminotransferase With Immobilised Enzymes and Electrochemical Detection, 1807
- ENZYME ELECTRODE**
- Chemically Immobilised Tri-enzyme Electrode for the Determination of Sucrose Using Flow Injection Analysis, 81
- Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035
- Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419
- Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811
- ENZYME SENSOR**
- Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77
- EPOXY RESIN**
- Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239
- ERGOSTEROL**
- Enhanced Fluorescence of Ergosterol by Iodination and Determination of Ergosterol by Fluorodensitometry, 809
- ERROR**
- Systematic and Random Errors in Known Subtraction Potentiometry and Analyte Subtraction Potentiometry. A Review, 997
- Basic Statistical Methods for Analytical Chemistry. Part I. Statistics of Repeated Measurements. A Review, 1351
- ESSENTIAL OIL**
- Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657
- Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIV. Monographs for Five Essential Oils, 1125
- ETHANOL**
- Determination of Ethanol Using Flow Injection Enthalpimetry, 359
- Determination of Total Sulphur in Ethanol by Reduction Using Raney Nickel and Detection by Cathodic Stripping Voltammetry, 1427
- Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865

ETHYLENE BLUE

Improvements to the Ethylene Blue Method for the Determination of Hydrogen Sulphide in Air, 1635

EUROPIUM

Fluorescence Enhancement of the Europium(III) - Thenoxytrifluoroacetone - Trioxylphosphine Oxide Ternary Complex by Gadolinium(III) and its Application to the Determination of Europium(III), 1453

EXPONENTIAL FIELD DECAY

Comparison of Experimental and Theoretical Fractionating Power for Exponential Field Decay Sedimentation Field-flow Fractionation, 1253

EXTRACTION

Extraction - Chromatographic Separation of Beryllium With Bis(2-ethylhexyl)phosphoric Acid, 175

Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239

Continuous Flow Solvent Extraction System for the Determination of Trace Amounts of Uranium in Nuclear Waste Reprocessing Solutions, 463

Extraction - Spectrophotometric Determination of Silver Ion Using Benzothiazurone Ether and Eosin, 551

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595

Separation of Molybdenum by Extraction of Molybdenum(VI) - 1,10-Phenanthroline with Isobutyl Methyl Ketone, 675

Spectrophotometric Determination of Potassium in River Water Based on Solvent Extraction of the Complex Formed with a Crown Ether and an Anionic Azo Dye Using Flow Injection, 743

Spectrophotometric Determination of Anionic Surfactants in Water After Solvent Extraction Coupled with Flow Injection, 747

Spectrophotometric Determination of Iodide at the 10^{-6} mol l⁻¹ Level by Solvent Extraction with Methylene Blue, 945

Simultaneous Determination of Cadmium, Indium and Tin in Standard Reference Materials Using Sub-stoichiometric Extraction of Indium Radioisotopes, 1121

Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561

Spectrophotometric Determination of Low Levels of Anionic Surfactants in Water by Solvent Extraction in a Flow Injection System, 1677

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

Monohalogenobenzoylhydrazones as Ligands in Extraction - Atomic Absorption Spectrometry, 1699

Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781

Segmented Flow Injection - Solvent Extraction Analysis, 1861

FAT
Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213

FEED
Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355

Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

Determination of Aprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

Determination of Sulphadimidine in Animal Feeds by High-performance Liquid Chromatography, 1397

FENTIN
Determination of Fentin Residues in Potatoes and Celery, 1237

FERMENTATION BROTH
Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197

FERRITIN
Characterisation of Highly Ordered Pyrolytic Graphite with Covalently Attached Ferritin by Electron Probe Microanalysis, 341

FERROCENE
Electroanalytical Studies of Ferrocene and Substituted Ferrocene in Non-aqueous Solvents by Rotating Disc Voltammetry, 333

FIBRE OPTIC
Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457

Paper Tape Analyser for Gases Based on Optical Fibres, 661

FIELD-FLOW FRACTIONATION
Comparison of Experimental and Theoretical Fractionating Power for Exponential Field Decay Sedimentation Field-flow Fractionation, 1253

FISH

Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923

FLAME

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

Micro-sampling Atomic Absorption Spectrometry Using Sample Drops on a Rotating Polytetrafluoroethylene Plate, 1687

Monohalogenobenzoylhydrazones as Ligands in Extraction - Atomic Absorption Spectrometry, 1699

FLAVANOL

Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99

FLAVONOID

Kinetic - Fluorimetric Determination of Flavonoids at the Nanomole Level, 555

FLOCCULATION

Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523

FLOUR

Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431

FLOW ANALYSIS

Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471

FLOW INJECTION

Chemically Immobilised Tri-enzyme Electrode for the Determination of Sucrose Using Flow Injection Analysis, 81

Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103

Determination of Ionic Surfactants by Flow Injection Pseudotitration, 117

On-line Pre-concentration and Determination of Lead in Potable Water by Flow Injection Atomic Absorption Spectrometry, 125

Simple Digital Counter for Use with Monosegmented Continuous Flow Analysis and Related Techniques, 295

Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301

Determination of Clonazepam by Flow Injection Analysis, 317

Determination of Ethanol Using Flow Injection Enthalpimetry, 359

Continuous Flow Solvent Extraction System for the Determination of Trace Amounts of Uranium in Nuclear Waste Reprocessing Solutions, 463

Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475

Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591

Platinum-dispersed Nafion-modified Glassy Carbon Electrode for the Determination of Hydrogen Peroxide in a Flow Injection System, 617

Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727

Multi-function Valve for Flow Injection Analysis, 731

Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735

Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739

Spectrophotometric Determination of Potassium in River Water Based on Solvent Extraction of the Complex Formed with a Crown Ether and an Anionic Azo Dye Using Flow Injection, 743

Spectrophotometric Determination of Anionic Surfactants in Water After Solvent Extraction Coupled with Flow Injection, 747

Automated Flow Injection Spectrophotometric Non-aqueous Pseudotitrations of Amines and Their Hydrohalide Salts, 755

Determination of Sulphide Using Flow Injection Analysis with a Coated Tubular Solid-state Silver Sulphide Ion-selective Electrode, 885

Enhanced Performance of Ion-selective Electrodes in Flow Injection Analysis: Non-Nernstian Response, Indirect Determination, Differential Detection and Modified Reverse Flow Injection Analysis, 1039

Prospects of Using Chemiluminescence Emission Generated During Oxidation of Pyrogallol with Periodate for the Determination of Pyrogallol with Flow Injection, 1051

Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057

Spectrophotometric Determination of *N*-Nitroso Compounds by Flow Injection Analysis, 1333

Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419

Transient Responses of Glass Electrodes in Dilute Solutions and Freshwaters, 1537

- Flow Injection Amperometric Detection Based on Ion Transfer Across a Water-Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541
- Versatile Manifold for the Simultaneous Determination of Ions in Flow Injection Analysis, 1551
- Simultaneous Determination of Iron(III) and Total Iron by Flow Injection Analysis Using Kinetic Spectrophotometry With Tiron, 1557
- Inverse Spectrophotometric Detection in Flow Injection Analysis: Determination of Nitrite Using Cerium(IV) as the Chromophore, 1597
- Flow Injection Determination of Drugs by Specific Detection of Carboxylic Acids, 1673
- Spectrophotometric Determination of Low Levels of Anionic Surfactants in Water by Solvent Extraction in a Flow Injection System, 1677
- Oxidative Flow Injection Amperometric Determination of Nitrite at an Electrochemically Pre-treated Glassy Carbon Electrode, 1723
- Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811
- Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821
- Flow Injection Spectrophotometric Determination of Copper(II) Using the Iron(III)-Thiosulphate Catalytic Reaction, 1827
- Segmented Flow Injection - Solvent Extraction Analysis, 1861
- FLOW-THROUGH ELECTRODE**
- Parabolic Flow Velocity Distribution in Electrolysis with Flow-through Porous Electrodes, 489
- FLUNITRAZEPAM**
- Determination of Flunitrazepam by Differential-pulse Voltammetry Using a Bentonite-modified Carbon Paste Electrode, 1719
- FLUORESCENCE**
- Use of Micellar Solutions to Improve the Fluorescence Determination of 2-Naphthol, 447
- Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzol[ghi]perylene Fluorescence Spectra, 1465
- Benzol[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869
- FLUORESCENCE SPECTROMETRY**
- Fluorescence Inner Filtering in Double-pass Cell Configurations. Part 4. Interdependence of Primary and Secondary Inner Filtering, 347
- FLUORIDE**
- Microdetermination of Fluoride in Water by Ion-exchange Spectrophotometry, 419
- Selective Collection of Fluoride Ion on an Anion-exchange Resin Loaded with Alizarin Fluorine Blue Sulphonate, 829
- Determination of Fluoride in Drinking Water and Sea Water by Aluminium Monofluoride Molecular Absorption Spectrometry Using an Electrothermal Graphite Furnace, 1109
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Tiron as a Masking Reagent for Aluminium in the Determination of Fluoride With an Ion-selective Electrode: Equilibrium Studies and Application, 1405
- Determination of Methanesulphonyl Fluoride in Blood Matrix With a Fluoride Ion-selective Electrode, 1485
- FLUORIDE ISOCONCENTRATION**
- Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865
- FLUORODENSITOMETRY**
- Enhanced Fluorescence of Ergosterol by Iodination and Determination of Ergosterol by Fluorodensitometry, 809
- FLUOROIMMUNOASSAY**
- Possibilities and Limitations of Continuous Thyroxine Measurement in an Optode Using the Principle of Homogeneous Fluoroimmunoassay, 1423
- FOOD**
- Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213
- Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225
- Improved Toluidine Blue Stain Mountant for the Microscopy of Food Products, 365
- Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479
- Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645
- Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765
- Enhanced Fluorescence of Ergosterol by Iodination and Determination of Ergosterol by Fluorodensitometry, 809
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035
- Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605
- Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximinocyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657
- FORMALDEHYDE**
- Determination of Formaldehyde in River Water by High-performance Liquid Chromatography, 665
- FORMIC ACID**
- Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
- FORMULATION**
- Kinetic Determination of Propranolol in Drug Formulations, 149
- High-performance Liquid Chromatographic Determination of Chlorpromazine and its Degradation Products in Pharmaceutical Dosage Forms: A Stability-indicating Assay, 233
- Bromimetric Determination of Some Benzothiadiazine Diuretics in Dosage Forms, 637
- Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865
- "Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalapirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077
- Spectrophotometric Determination of Certain Cephalosporins Using Molybdophosphoric Acid, 1083
- Derivative Spectrophotometric Determination of Clemastine Fumarate in Pharmaceutical Preparations, 1137
- Spectrophotometric Determination of Clotrimazole and Diodoquin in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximinocyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657
- Specific Determination of Azathioprine in Solution by a Spectrophotometric Method and its Application to a Tablet Assay, 1665
- Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709
- Spectrophotometric Determination of Maprotiline Hydrochloride, 1745
- FOURIER FUNCTION**
- Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563
- FOURIER TRANSFORM**
- Systematic Approach to Coupled Gas Chromatography Fourier Transform Infrared Spectroscopy Using Two Wide Bore Capillary Columns, 1171
- FRACTIONATION**
- Comparison of Experimental and Theoretical Fractionating Power for Exponential Field Decay Sedimentation Field-flow Fractionation, 1253
- FRUIT**
- Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225
- Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667
- FRUIT JUICE**
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035
- FUNGICIDE**
- Determination of the Fungicide Tricyclazole in River Water, Soil and Animal Samples, 193
- Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625
- Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229
- Determination of Fentin Residues in Potatoes and Celery, 1237
- GALLIUM**
- Spectrophotometric Determination of Gallium with Salicylaldehyde Carbohydrazide and its Application to the Analysis of Biological Samples and Alloys, 443
- Determination of Gallium and Indium with Haematoxylin in a Micellar Medium, 1277

Di-2-pyridyl Ketone 2-Furoylhydrazone as a Reagent for the Fluorimetric Determination of Low Concentrations of Gallium and its Application to Biological Samples, 1283

GAS ANALYSER

Paper Tape Analyser for Gases Based on Optical Fibres, 661

GAS CHROMATOGRAPHY

Selective Gas Chromatographic Determination of Trace Amounts of Alcohols in Ambient Air, 189

Determination of the Fungicide Tricyclazole in River Water, Soil and Animal Samples, 193

Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385

Some Applications of the Surface Ionisation Detector in Gas Chromatography, 789

Determination of Low Relative Molecular Mass Alcohols in Gasoline by Gas Chromatography, 907

Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159

Systematic Approach to Coupled Gas Chromatography Fourier Transform Infrared Spectroscopy Using Two Wide Bore Capillary Columns, 1171

Determination of Some Two- and Three-ring Aromatic Hydrocarbons by Combined Gas Chromatography - Fluorescence Spectrometry, 1175

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

Determination of Fentin Residues in Potatoes and Celery, 1237

Pyrolysis Gas Chromatographic Analysis of Alcohol Polyethoxylates with Hydrobromic Acid Cleavage of the Ether Linkages, 1241

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

Comparison of Two Calculation Procedures for Gas Chromatography - Mass Spectrometry Associated With Stable Isotope Dilution, 1843

Simple and Rapid Gas Chromatographic Determination of Valproic Acid in Plasma, 1873

GAS - LIQUID CHROMATOGRAPHY

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657

Gas - Liquid Chromatographic Method for the Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide. Part 2. Determination in Alkaline Solutions, 793

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIV. Monographs for Five Essential Oils, 1125

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Determination of Airborne Dioxitol Vapour by Charcoal Tube Sampling and Gas - Liquid Chromatographic Analysis, 1235

GASOLINE

Influence of Surfactants on the Gasoline - Water Emulsion. Polarography of Lead and the Determination of Lead in Gasoline, 613

Determination of Low Relative Molecular Mass Alcohols in Gasoline by Gas Chromatography, 907

GELATIN

Use of Gelatin in the Differential-pulse Polarographic Determination and Identification of Synthetic Colouring Matters in Drugs and Cosmetics, 853

GEL CHROMATOGRAPHY

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

GEL PERMEATION CHROMATOGRAPHY

Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

GEOLOGICAL

Determination of Microgram Amounts of Zirconium in Geological Materials by Coprecipitation with Iron(III) Hydroxide and X-ray Fluorescence Spectrometry, 197

Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567

GLASS

Determination of Neodymium with 1-(2-Pyridylazo)-2-Naphthol by High-order Derivative Spectrophotometry. Application to the Determination of Neodymium in Glasses, 429

GLASS ELECTRODE

Transient Responses of Glass Electrodes in Dilute Solutions and Freshwaters, 1537

GLASSY CARBON ELECTRODE

Electrochemical Reduction of Some 1,4-Thienodiazepines at a Glassy Carbon Electrode, 109

Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483

Platinum-dispersed Nafion-modified Glassy Carbon Electrode for the Determination of Hydrogen Peroxide in a Flow Injection System, 617

Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625

Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865

Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715

Oxidative Flow Injection Amperometric Determination of Nitrite at an Electrochemically Pre-treated Glassy Carbon Electrode, 1723

Voltammetric Behaviour of All-trans-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785

Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791

GLUCOSE

Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225

Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475

Multi-function Valve for Flow Injection Analysis, 731

Improved Method for the Determination of the Total Glucosinolate Content of Rapeseed by Determination of Enzymically Released Glucose, 1515

Optical Sensors. Part 34. Fibre Optic Glucose Biosensor With an Oxygen Optrode as the Transducer, 1519

GLUCOSE ELECTRODE

Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735

GLUCOSINOLATE

Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355

Improved Method for the Determination of the Total Glucosinolate Content of Rapeseed by Determination of Enzymically Released Glucose, 1515

GLUTATHIONE

Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259

GLYCATION

Spectrophotometric Determination of Browning Products of Glycation of Protein Amino Groups Based on Their Reactivity with Nitro Blue Tetrazolium Salts, 1101

GLYCOL ETHER

Determination of Airborne Dioxitol Vapour by Charcoal Tube Sampling and Gas - Liquid Chromatographic Analysis, 1235

GRAIN

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

GRAPE

Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99

GRAPHITE

Characterisation of Highly Ordered Pyrolytic Graphite with Covalently Attached Ferritin by Electron Probe Microanalysis, 341

GRAPHITE ELECTRODE

Chronopotentiometry at a Tubular Graphite Electrode. Part 2. Experimental Verification of Theoretical Results, 493

GRAPHITE PASTE ELECTRODE

Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735

HAEMATOTOXILIN

Use of Haematotoxin in an Improved Method for the Determination of Ultramicro Amounts of Aluminium, 577

HAIR

Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431

HANGING MERCURY DROP ELECTRODE

Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791

Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799

HERBICIDE

Determination of Isomethiozin by Differential-pulse Polarography, 629

HEXACYANOFERRATE(III)

Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

HEXADECYLPYRIDINIUM BROMIDE

Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305

HEXAMETHYLENETETRAMINE

High-performance Liquid Chromatographic Determination of Hexamethylenetetramine in Air, 511

HIGH-PERFORMANCE ION-EXCHANGE CHROMATOGRAPHY
Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645

HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91

Determination of Steroids Using Rapid High-performance Liquid Chromatography with Diode Array Detection, 165

High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229

High-performance Liquid Chromatographic Determination of Chlorpromazine and its Degradation Products in Pharmaceutical Dosage Forms: A Stability-indicating Assay, 233

Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239

High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with α -Cresolphthalein Complexone, 247

Determination of Endogenous Vitamin K (Phylloquinone and Menaquinone-*n*) in Plasma by High-performance Liquid Chromatography Using Platinum Oxide Catalyst Reduction and Fluorescence Detection, 393

Separation and Determination of Aniline and Substituted Anilinesulphonic Acid Derivatives by Ion-pair Reversed-phase High-performance Liquid Chromatography, 399

High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509

High-performance Liquid Chromatographic Determination of Hexamethylenetetramine in Air, 511

Determination of Formaldehyde in River Water by High-performance Liquid Chromatography, 665

Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667

High-performance Liquid Chromatographic Separation and Identification of Alkylxanthate Mixtures After Derivatisation with Dimeric Cobalt Dithiocarbamates, 685

Quantitative and Qualitative Analysis of Saframycins. Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721

Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

Pre-column Chelation with 8-Hydroxyquinoline for the Simultaneous Determination of Metal Ions by Reversed-phase High-performance Liquid Chromatography, 805

Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

Determination of Arprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903

Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189

Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197

High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201

Application of a Novel Strategy for the Recovery and Trace Enrichment of Acrylamide Monomer to its Liquid Chromatographic Determination in Acrylamide Copolymers, 1205

Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatisation of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid Chromatography, 1209

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393

Determination of Sulphadimidine in Animal Feeds by High-performance Liquid Chromatography, 1397

Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443

Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625

Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631

Voltammetric Behaviour of All-*trans*-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785

Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

HORMONE

Possibilities and Limitations of Continuous Thyroxine Measurement in an Optode Using the Principle of Homogeneous Fluoroimmunoassay, 1423

HORSE

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

HORSE DOPING

Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189

H-POINT

H-point Standard Additions Method. Part 1. Fundamentals and Application to Analytical Spectroscopy, 1011

HUMAN SERUM ALBUMIN

Fluorimetric Determination of Human Serum Albumin with Eriochrome Cyanine R, 679

HYDRAZINE

Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481

HYDRAZONES

Monohalogenobenzoylhydrazones as Ligands in Extraction - Atomic Absorption Spectrometry, 1699

HYDRIDE GENERATION

Continuous Hydride Generation in Inductively Coupled Plasma Atomic Emission Spectrometry Using a Dual Platinum Grid Nebuliser System, 345

Determination of Selenium by Hydride Generation Ultraviolet - Visible Molecular Absorption Spectrometry With Diode-array Detection, 1387

HYDROCARBON

High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509

Determination of Some Two- and Three-ring Aromatic Hydrocarbons by Combined Gas Chromatography - Fluorescence Spectrometry, 1175

HYDROCHLORIC ACID

Performance Testing of pH Electrodes Suitable for Low Ionic Strength Solutions, 709

HYDROFLUORIC ACID

Compact Teflon Still for Sub-boiling Distillation of Acids, 1145

HYDROGEN PEROXIDE

Platinum-dispersed Nafion-modified Glassy Carbon Electrode for the Determination of Hydrogen Peroxide in a Flow Injection System, 617

Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811

HYDROGEN SULPHIDE

Paper Tape Analyser for Gases Based on Optical Fibres, 661

Improvements to the Ethylene Blue Method for the Determination of Hydrogen Sulphide in Air, 1635

HYDROXYBENZOIC ACID

Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035

HYDROXYBENZOYLHYDRAZIDE

Observations on the 4-Hydroxybenzoylhydrazide Methods for the Determination of Carbohydrates, 841

HYDROXYPHENOXYMETHYLPENICILLIN

Determination of *p*-Hydroxyphenoxyethylpenicillin in Phenoxyethylpenicillin by Derivative Spectrophotometry, 569

IMMOBILISED ENZYME

- Determination of Alanine Aminotransferase and Aspartate Aminotransferase With Immobilised Enzymes and Electrochemical Detection, 1807
- Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811

IMMUNOASSAY

- Possibilities and Limitations of Continuous Thyroxine Measurement in an Optode Using the Principle of Homogeneous Fluoroimmunoassay, 1423
- Application of Adsorptive Stripping Voltammetry to the Study of the Reaction of Immunoglobulin E With Anti-immunoglobulin E, 1795

IMMUNOCHEMICAL REACTION

- Application of Adsorptive Stripping Voltammetry for a Study of the Reaction of Mouse IgG with Anti-mouse IgG, 31

IMMUNOGLOBULIN E

- Application of Adsorptive Stripping Voltammetry to the Study of the Reaction of Immunoglobulin E With Anti-immunoglobulin E, 1795

IMMUNOGLOBULIN G

- Application of Adsorptive Stripping Voltammetry for a Study of the Reaction of Mouse IgG with Anti-mouse IgG, 31

IMPINGING JET ELECTRODE

- Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483

INDIUM

- Simultaneous Determination of Cadmium, Indium and Tin in Standard Reference Materials Using Sub-stoichiometric Extraction of Indium Radioisotopes, 1121
- High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201
- Determination of Gallium and Indium with Haematoxylin in a Micellar Medium, 1277

INDUCTIVELY COUPLED PLASMA

- Continuous Hydride Generation in Inductively Coupled Plasma Atomic Emission Spectrometry Using a Dual Platinum Grid Nebuliser System, 345
- Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405
- Determination of Metals in Sewage Sludge by Inductively Coupled Plasma Atomic Emission Spectrometry Using a Simplified Nitric Acid Digestion Method, 413
- Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159
- Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167
- Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383
- Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837

INFRARED SPECTROMETRY

- Comparative Study of Methods of Linearisation and Scatter Correction in Near Infrared Reflectance Spectroscopy, 263
- Reconstruction of Constituent Spectra from Near Infrared Sample Spectra Using Principal Components, 269
- Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355
- Systematic Approach to Coupled Gas Chromatography Fourier Transform Infrared Spectroscopy Using Two Wide Bore Capillary Columns, 1171
- Determination of Water in Acetonitrile, Propionitrile, Dimethylformamide and Tetrahydrofuran by Infrared and Near-infrared Spectrometry, 1729

INOSITOL PHOSPHATE

- Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645

INSECTICIDE

- Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229
- Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493
- Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

INTERFERENCE

- Determination of Osmium(VIII) in Aqueous Solution by D.c. Argon Plasma Atomic Emission Spectrometry: Interference Studies, 273
- On-line Method for Overcoming Phosphate Interference in the Automated Cadmium Reduction Method for the Determination of Nitrate, 297

- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585

- Spectrophotometric Method for the Determination of Total Cyanide in Wastewater Samples, 1273

- Determination of Trace Amounts of Tin by Hydride Generation Direct Current Plasma Atomic Emission Spectrometry: Interference Reduction by L-Cystine, 1377

IODIDE

- Spectrophotometric Determination of Iodide at the 10^{-6} mol l⁻¹ Level by Solvent Extraction with Methylene Blue, 945

IODIMETRY

- Iodimetric Determination of Penicillins by a Triangle Programmed Flow-through Titration Technique, 881
- Determination of Peroxides in the Presence of a Large Excess of Hydrogen Peroxide Using a Rapid and Convenient Spectrophotometric Method, 1477

IODINE

- Catalytic Determination of Iodine in Biological Materials, 153
- Determination of Nanogram Amounts of Iodine by Chemisorption on Metals and Subsequent Isotope Dilution. Application to Biological Reference Materials, 973

ION CHROMATOGRAPHY

- Rapid Ion Chromatographic Separation and Determination of Arsenic(III) - Arsenic(V) and Molybdenum(VI) - Chromium(VI), 179
- Simultaneous Determination of Selected Transition Metal Cations and Inorganic Anions by Ion Chromatography, 183
- Determination of Thiocyanate in Human Serum by Ion Chromatography, 389
- Determination of Trace Amounts of Aluminium by Ion Chromatography with Fluorescence Detection, 641
- Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401
- Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589

ION EXCHANGE

- Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471
- Pre-concentration of Carbon-14 Labelled Thiocyanate by Ion Exchange, 671
- Studies on Inorganic Ion Exchangers. Part 1. Preparation, Properties and Application of Cerium(IV) Arsenite, 1141
- Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401

ION SENSING

- Copper(II)-selective Electrodes Based on Macrocyclic Polythiaethers, 45
- Versatile Manifold for the Simultaneous Determination of Ions in Flow Injection Analysis, 1551

ION TRANSFER

- Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541

ION-EXCHANGE CHROMATOGRAPHY

- Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645

ION-SELECTIVE ELECTRODE

- Copper(II)-selective Electrodes Based on Macrocyclic Polythiaethers, 45
- Effect of Temperature on the Response Characteristics of Ion-selective Electrodes Based on Solid Silver Salts Applied to Electrically Conductive Epoxy Supports, 49
- Guanidinium Ion-selective Electrodes Based on Dibenzo-27-crown-9 and Tetraphenylborate, 61
- Studies on Crown Ether Based Potentiometric Sensors for 4,4'-Dipyridinium and Related Dications, 65
- Determination of Low Sulphide and Cyanide Levels in Biochemical and Environmental Control Using a Deposited-on-Wire Ag - Ag₂S Electrode, 71
- Continuous Flow Determination of Low Concentrations of Ammonium Ions Using a Gas Dialysis Concentrator and a Gas Electrode Detector System, 113
- Determination of Ionic Surfactants by Flow Injection Pseudotitration, 117
- Polymeric Membrane Cholate-selective Electrode, 325
- Optimisation of Poly(vinyl chloride) Matrix Membrane Ion-selective Electrodes for Ammonium Ions, 497
- Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523
- Poly(vinyl chloride) Matrix Membrane Uranyl Ion-selective Electrodes Based on Organophosphorus Sensors, 699
- Determination of Sulphide in Blood with an Ion-selective Electrode by Pre-concentration of Trapped Sulphide in Sodium Hydroxide Solution, 839

- Determination of Sulphide Using Flow Injection Analysis with a Coated Tubular Solid-state Silver Sulphide Ion-selective Electrode, 885
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891
- Comparison of the Selectivity of Propeller Crowns in Poly(vinyl chloride) Membrane Ion-selective Electrodes, 895
- Characterisation of Poly(vinyl chloride) Barium Ion-selective Electrodes Without an Internal Reference Solution, 1023
- Enhanced Performance of Ion-selective Electrodes in Flow Injection Analysis: Non-Nernstian Response, Indirect Determination, Differential Detection and Modified Reverse Flow Injection Analysis, 1039
- Alkali and Alkaline Earth Metal Ion-sensing Studies on Two Disubstituted Diphenyl Ethers of Tetraethylene Glycol, 1295
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305
- Tiron as a Masking Reagent for Aluminium in the Determination of Fluoride With an Ion-selective Electrode: Equilibrium Studies and Application, 1405
- Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409
- Tetraheptylammonium Hydrogen Phthalate Membrane Electrodes for the Determination of Plasticiser in Poly(vinyl chloride), 1415
- Determination of Methanesulphonyl Fluoride in Blood Matrix With a Fluoride Ion-selective Electrode, 1485
- Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds With Heteroatoms. Part II. Complexing Compounds Containing Sulphur Atoms, 1803
- Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865
- ION-SELECTIVE FIELD EFFECT TRANSISTOR**
- Modified Poly(vinyl chloride) Matrix Membranes for Ion-selective Field Effect Transistor Sensors, 1703
- ION-SELECTIVE OPTRODE**
- Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693
- ION-SENSITIVE FIELD EFFECT TRANSISTOR**
- Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103
- IRIDIUM OXIDE ELECTRODE**
- Evaluation of Iridium Oxide Electrodes Formed by Potential Cycling as pH Probes, 35
- IRON**
- Use of Haematoxylin in an Improved Method for the Determination of Ultramicro Amounts of Aluminium, 577
- Determination of Iron in Zircaloy-2 and Zircaloy-4 by Differential-pulse Polarography, 837
- Determination of Iron in Aluminium and Nickel Metals, Non-ferrous Alloys, Feldspar and Portland Cement Using Morin and Triton X-100, 937
- High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(N-propyl-N-sulphopropylamino)-phenol, 1201
- Spectrophotometric Determination of Iron in Acids, 1341
- Simultaneous Determination of Iron(III) and Total Iron by Flow Injection Analysis Using Kinetic Spectrophotometry With Tiron, 1557
- Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821
- Reaction Spectrophotometric Determination of Copper(II) and Iron(III) - Thiosulphate Catalytic Reaction, 1827
- ISFET**
- Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103
- Solvent Polymeric Membranes Combined with Chemical Solid-state Sensors, 1029
- Modified Poly(vinyl chloride) Matrix Membranes for Ion-selective Field Effect Transistor Sensors, 1703
- ISOCONCENTRATION**
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using Cells Without a Liquid Junction Under Proton Isoconcentration Conditions, 1365
- Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
- Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865
- ISOCYANATE**
- Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatisation of Poly(methylene(polyphenyl isocyanate)) for Quantification by High-performance Liquid Chromatography, 1209
- ISOMETHIOZIN**
- Determination of Isomethiozin by Differential-pulse Polarography, 629
- ISONIAZID**
- Spectrophotometric Determination of Isoniazid Using 6,7-Dichloroquinoline-5,8-dione, 1091
- ISOTOPE**
- Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405
- Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837
- ISOTOPE DILUTION**
- Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923
- Determination of Nanogram Amounts of Iodine by Chemisorption on Metals and Subsequent Isotope Dilution. Application to Biological Reference Materials, 973
- Comparison of Two Calculation Procedures for Gas Chromatography - Mass Spectrometry Associated With Stable Isotope Dilution, 1843
- KINETIC**
- Catalytic Effect of Mercury(II) on the Photo-oxidation of EDTA by Iodine: Kinetic Determination of Mercury, 145
- Kinetic Determination of Propanolol in Drug Formulations, 149
- Kinetic - Spectrophotometric Determination of Manganese(II) at the Nanogram Level Based on its Catalytic Effect on the Oxidation of an Azo Dye with Hydrogen Peroxide, 433
- Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437
- Kinetic - Fluorimetric Determination of Flavonoids at the Nanomole Level, 555
- Kinetic - Spectrophotometric Determination of Low Cyanide Concentrations in the Presence of Large Amounts of Thiocyanate, 573
- Determination of Trace Amounts of Mercury(II) and Silver(I): a Catalytic Method, 983
- Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733
- LACTATE DEHYDROGENASE**
- Determination of Alanine Aminotransferase and Aspartate Aminotransferase With Immobilised Enzymes and Electrochemical Detection, 1807
- LANGMUIR - BLODGETT LAYER**
- Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693
- LANTHANIDE**
- Determination of Trace Amounts of Praseodymium by Third-derivative Molecular Absorption Spectrophotometry, 1061
- Fluorescence Enhancement of the Europium(III) - Thienoyltri-fluoroacetone - Trioctylphosphine Oxide Ternary Complex by Gadolinium(III) and its Application to the Determination of Europium(III), 1453
- Advances in the Analytical Chromatography of the Lanthanides. A Review, 1757
- LASER**
- Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285
- Determination of Uranium in Minerals by Laser Fluorimetry, 451
- Optimisation of a Compact Single-laser - Dual-beam Thermal Lens Apparatus, 1113
- LEAD**
- Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87
- On-line Pre-concentration and Determination of Lead in Potable Water by Flow Injection Atomic Absorption Spectrometry, 125
- Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591
- Influence of Surfactants on the Gasoline - Water Emulsion. Polarography of Lead and the Determination of Lead in Gasoline, 613
- Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773
- Rapid Determination of Arsenic in the Presence of Lead in a Zinc Sulphide Matrix by X-ray Fluorescence Spectrometry, 1325
- Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409

Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
Continuous Flow Determination of Sulphate With a Lead-selective Electrode, 1817

LEAD - ZINC CONCENTRATE

Determination of Sulphide Sulphur and Total Sulphur in Lead - Zinc Concentrates and Related Smelter Products by an Evolution Technique, 313

LIGAND-EXCHANGE CHROMATOGRAPHY

Separation of Dansylamino Acid Enantiomers by Thin-layer Chromatography, 1245

LIGNIN

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91

LINEARISATION

Comparative Study of Methods of Linearisation and Scatter Correction in Near Infrared Reflectance Spectroscopy, 263

LIQUID CHROMATOGRAPHY

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91

Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95

Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99

Determination of Steroids Using Rapid High-performance Liquid Chromatography with Diode Array Detection, 165

Liquid Chromatographic Determination of Chloramphenicol in Kidney Tissue Homogenates Using Valve-switching Techniques, 171

High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229

Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239

Determination of Mercury(II) and Organomercury Compounds by Reversed-phase Liquid Chromatography with Reductive Electrochemical Detection, 243

High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247

Separation and Determination of Aniline and Substituted Anilinesulphonic Acid Derivatives by Ion-pair Reversed-phase High-performance Liquid Chromatography, 399

High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509

Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651

Determination of Formaldehyde in River Water by High-performance Liquid Chromatography, 665

Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667

High-performance Liquid Chromatographic Separation and Identification of Alkylxanthate Mixtures After Derivatisation with Dimeric Cobalt Dithiocarbamates, 685

Quantitative and Qualitative Analysis of Saframycins.

Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721

Gas - Liquid Chromatographic Method for the Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide. Part 2. Determination in Alkaline Solutions, 793

Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

Pre-column Chelation with 8-Hydroxyquinoline for the Simultaneous Determination of Metal Ions by Reversed-phase High-performance Liquid Chromatography, 805

Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

Determination of Aprinocin in Poultry Feeds by High-performance Liquid Chromatography, 903

Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159

Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189

Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197

High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201

Application of a Novel Strategy for the Recovery and Trace Enrichment of Acrylamide Monomer to its Liquid Chromatographic Determination in Acrylamide Copolymers, 1205

Application of Tryptamine as a Derivatising Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatisation of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid Chromatography, 1209

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217

Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393

Determination of Sulphadimidine in Animal Feeds by High-performance Liquid Chromatography, 1397

Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443

Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625

Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631

Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781

Voltammetric Behaviour of All-*trans*-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785

Comparison of Mercury- and Glassy Carbon-based Electrochemical Detection Systems for the Determination of Cisplatin Following High-performance Liquid Chromatographic Separation, 1791

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

LIQUID JUNCTION POTENTIAL

Performance Testing of pH Electrodes Suitable for Low Ionic Strength Solutions, 709

LITHIUM

Fluorescence Spectrophotometric Determination of Lithium Ion Based on 1,3-Bis(8-quinoloxyl)propane Derivatives, 1065

LOBSTER HEPATOPANCREAS

Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383

LUMINESCENCE

Prospects of Using Chemiluminescence Emission Generated During Oxidation of Pyrogallol with Periodate for the Determination of Pyrogallol with Flow Injection, 1051

MADURAMICIN AMMONIUM

Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813

MAGNESIUM

High-performance Liquid Chromatography Using a Colour-forming Agent as a Component of the Mobile Phase. Separation and Determination of Magnesium and Calcium in Clinical Samples with *o*-Cresolphthalein Complexone, 247

Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285

Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633

Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837

MALACHITE GREEN

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

MANGANESE

Kinetic - Spectrophotometric Determination of Manganese(II) at the Nanogram Level Based on its Catalytic Effect on the Oxidation of an Azo Dye with Hydrogen Peroxide, 433

Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437

MAPROTILINE

Spectrophotometric Determination of Maprotiline Hydrochloride, 1745

MARINE TISSUE

Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159

MASS SPECTROMETRY

Determination of the Fungicide Trycycloazole in River Water, Soil and Animal Samples, 193

Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405

Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797

Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

ASES/MS: An Automatic Structure Elucidation System for Organic Compounds Using Mass Spectrometric Data, 1261

Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383

Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837

Comparison of Two Calculation Procedures for Gas Chromatography - Mass Spectrometry Associated With Stable Isotope Dilution, 1843

MEAT

Improved Toluidine Blue Stain Mountant for the Microscopy of Food Products, 365

MEBENDAZOLE

Determination of Mebendazole and its Formulations Using ¹H Nuclear Magnetic Resonance Spectrometry, 599

MEMBRANE

Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103

Acid-soluble Membrane Filter for the Pre-concentration and Electrothermal Atomisation Atomic Absorption Spectrometric Determination of Trace Levels of Cadmium in Water, 1695

MEMBRANE ELECTRODE

Copper(II)-selective Electrodes Based on Macrocyclic Polythiaethers, 45

PVC Membrane Electrodes of Anisodamine, *N*-Butylscopolamine and Homatropine, 57

Polymeric Membrane Cholate-selective Electrode, 325

Optimisation of Poly(vinyl chloride) Matrix Membrane Ion-selective Electrodes for Ammonium Ions, 497

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501

Poly(vinyl chloride) Matrix Membrane Uranyl Ion-selective Electrodes Based on Organophosphorus Sensors, 699

Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891

Comparison of the Selectivity of Propeller Crowns in Poly(vinyl chloride) Membrane Ion-selective Electrodes, 895

Solvent Polymeric Membranes Combined with Chemical Solid-state Sensors, 1029

Tetraheptylammonium Hydrogen Phthalate Membrane Electrodes for the Determination of Plasticiser in Poly(vinyl chloride), 1415

Modified Poly(vinyl chloride) Matrix Membranes for Ion-selective Field Effect Transistor Sensors, 1703

Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709

Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds With Heteroatoms. Part II. Complexing Compounds Containing Sulphur Atoms, 1803

MEMBRANE FILTER

Determination of Trace Amounts of Aluminium in Tap Water by Spectrophotometry After Collection on a Membrane Filter Using Chrome Azurol S and Zephiramine, 1545

MEMBRANE POTENTIAL

Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693

MENAIQUINONE

Determination of Endogenous Vitamin K (Phylloquinone and Menaquinone-*n*) in Plasma by High-performance Liquid Chromatography Using Platinum Oxide Catalyst Reduction and Fluorescence Detection, 393

MERCURY

Catalytic Effect of Mercury(II) on the Photo-oxidation of EDTA by Iodine: Kinetic Determination of Mercury, 145

Determination of Mercury(II) and Organomercury Compounds by Reversed-phase Liquid Chromatography with Reductive Electrochemical Detection, 243

Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923

Determination of Trace Amounts of Mercury(II) and Silver(I): a Catalytic Method, 983

Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167

Medium Effects in the Stripping Voltammetry of Mercury, 1533

MERCURY DROP ELECTRODE

Application of a Controlled-growth Mercury Drop Electrode to Polarography, 15

Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727

Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869

METABOLISM

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

METAL

Determination of Sulphide Sulphur and Total Sulphur in Lead - Zinc Concentrates and Related Smelter Products by an Evolution Technique, 313

Determination of Metals in Sewage Sludge by Inductively Coupled Plasma Atomic Emission Spectrometry Using a Simplified Nitric Acid Digestion Method, 413

Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831

METAL ION

Pre-column Chelation with 8-Hydroxyquinoline for the Simultaneous Determination of Metal Ions by Reversed-phase High-performance Liquid Chromatography, 805

Titration of Bivalent Metal Ions with Sodium Tetraphenylborate in the Presence of Polyethylene Glycol, 959

METAVANADATE

Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

METHANESULPHONYL FLUORIDE

Determination of Methanesulphonyl Fluoride in Blood Matrix With a Fluoride Ion-selective Electrode, 1485

METHIONINE

Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259

METHYL SALICYLATE

Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865

MICELLAR LIQUID CHROMATOGRAPHY

Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223

MICROEMULSION

Analytical Applications of Microemulsions. Spectrophotometric Determination of Zinc Using Dithizone, 769

MICROSCOPY

Improved Toluidine Blue Stain Mountant for the Microscopy of Food Products, 365

MICROWAVE DIGESTION

Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159

MILK

Simultaneous Determination of Bromine and Chlorine in Cow's Milk by Radioactivation Analysis, 515

Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633

Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217

MILLISECOND REACTION

Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733

MINERAL

Extraction - Chromatographic Separation of Beryllium With Bis(2-ethylhexyl)phosphoric Acid, 175

Determination of Microgram Amounts of Zirconium in Geological Materials by Coprecipitation with Iron(III) Hydroxide and X-ray Fluorescence Spectrometry, 197

Determination of Uranium in Minerals by Laser Fluorimetry, 451
Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N-p*-Aminophenyl-2-thenylacryloyldihydroxyamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561

Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567

X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737

MINT

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657

MOLECULAR ABSORPTION SPECTROMETRY

Determination of Trace Amounts of Praseodymium by Third-derivative Molecular Absorption Spectrophotometry, 1061

Determination of Fluoride in Drinking Water and Sea Water by Aluminium Monofluoride Molecular Absorption Spectrometry Using an Electrothermal Graphite Furnace, 1109

Determination of Selenium by Hydride Generation Ultraviolet - Visible Molecular Absorption Spectrometry With Diode-array Detection, 1387

MOLYBDENUM

Rapid Ion Chromatographic Separation and Determination of Arsenic(III) - Arsenic(V) and Molybdenum(VI) - Chromium(VI), 179

Reductive Differential-pulse Adsorptive Stripping Voltammetric Determination of Molybdenum as 12-Molybdophosphoric Acid or as Molybdic Acid at a Hanging Mercury Drop Electrode, 361
Separation of Molybdenum by Extraction of Molybdenum(VI) - 1,10-Phenanthroline with Isobutyl Methyl Ketone, 675

MOLYBDOSULPHATE BLUE

Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdosulphate Complex, 1639

MORIN

Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437

MOULD

Enhanced Fluorescence of Ergosterol by Iodination and Determination of Ergosterol by Fluorodensitometry, 809

MULLITE

X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737

MULTI-WAVELENGTH DETECTION

Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625

MUTAGENICITY

Kinetic - Fluorimetric Determination of Flavonoids at the Nanomole Level, 555

NAPHTHALENEACETIC ACID

Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667

NAPHTHALENE ADSORPTION

Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423

NAPHTHOL

Use of Micellar Solutions to Improve the Fluorescence Determination of 2-Naphthol, 447

NATURAL WATER

Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdosulphate Complex, 1639

Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

NEAR-INFRARED

Determination of Water in Acetonitrile, Propionitrile, Dimethylformamide and Tetrahydrofuran by Infrared and Near-infrared Spectrometry, 1729

Transformations to Reduce the Effect of Particle Size in Near-infrared Spectra, 1849

NEBULISATION

Micro-sampling Atomic Absorption Spectrometry Using Sample Drops on a Rotating Polytetrafluoroethylene Plate, 1687

Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799

NEODYMIUM

Determination of Neodymium with 1-(2-Pyridylazo)-2-Naphthol by High-order Derivative Spectrophotometry. Application to the Determination of Neodymium in Glasses, 429

NEUTRON ACTIVATION

Characterisation of Trace Elements in Dry Depositions by Instrumental Neutron Activation Analysis, 1575

Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855

NICKEL

Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595

Simultaneous Determination of Cobalt and Nickel by First-derivative Spectrophotometry, 1439

Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821

NITRATE

On-line Method for Overcoming Phosphate Interference in the Automated Cadmium Reduction Method for the Determination of Nitrate, 297

Differential-pulse Polarographic Determination of Nitrate as 3-Nitrobenzoic Acid and Other Nitro Derivatives, 979

Re-examination of the Determination of Environmental Nitrate as Nitrite by Reduction with Hydrazine, 1117

NITRAZEPAM

Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087

NITRITE

Spectrophotometric Determination of Nitrite in Water, 1073

Re-examination of the Determination of Environmental Nitrate as Nitrite by Reduction with Hydrazine, 1117

Differential-pulse Adsorptive Stripping Voltammetric Method for the Determination of Nitrite at p.p.b. Levels after Diazotisation of Aniline and Coupling with Azulene and its Modification for the Determination of Aromatic Amines, 1337

Inverse Spectrophotometric Detection in Flow Injection Analysis: Determination of Nitrite Using Cerium(IV) as the Chromophore, 1597

Oxidative Flow Injection Amperometric Determination of Nitrite at an Electrochemically Pre-treated Glassy Carbon Electrode, 1723

NITRO COMPOUND

Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087

NITROFURANTOIN

Reductive Amperometric Determination of Nitrofurantoin and Acetazolamide at a Sessile Mercury Drop Electrode Using Flow Injection Analysis, 727

NITROGEN

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501

Spectrophotometric Determination of Trimethylamine Nitrogen in Raw Waters Using Picric Acid, 1139

NITROGEN LIGANDS

Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891

NITROPHENYL DISULPHIDE

Differential-pulse Polarography Applied to Aromatic Disulphides, 977

NITROSAMIDE

Spectrofluorimetric Determination of *N*-Nitroso-*N*-methylurea With Sodium Sulphide, Taurine and *o*-Phthalaldehyde, 1669

NITROSO COMPOUND

Spectrophotometric Determination of *N*-Nitroso Compounds by Flow Injection Analysis, 1333

NITROSOMETHYLUREA

Spectrofluorimetric Determination of *N*-Nitroso-*N*-methylurea With Sodium Sulphide, Taurine and *o*-Phthalaldehyde, 1669

NMR SPECTROSCOPY

Determination of Mebendazole and its Formulations Using ¹H Nuclear Magnetic Resonance Spectrometry, 599

Direct ¹H NMR Determination of the Enantiomeric Excess of Carnitine, 1143

NON-AQUEOUS SOLVENTS

Determination of Water in Acetonitrile, Propionitrile, Dimethylformamide and Tetrahydrofuran by Infrared and Near-infrared Spectrometry, 1729

NORCOCAINE

Identification and Determination of Norcocaine in Illicit Cocaine and Coca Leaves by Gas Chromatography - Mass Spectrometry and High-performance Liquid Chromatography, 1213

NUCLEAR FUEL

Determination of Tungsten in Composite Nuclear Fuels by Differential-pulse Polarography, 1317

NUCLEAR WASTE

Continuous Flow Solvent Extraction System for the Determination of Trace Amounts of Uranium in Nuclear Waste Reprocessing Solutions, 463

OCCUPATIONAL HYGIENE

Determination of Chromium Oxidation State by X-ray Fluorescence Spectrometry: Application to Chromium(VI) and Chromium(III) Determination in Occupational Hygiene Samples, 779

OCTANOL

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657

OIL

Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501

Spectrofluorimetric Determination of Vanadium(V) in Petroleum Crudes and Basic Slag with Nuclear Fast Red, 987

OIL FORMATION WATER

Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589

OPTICAL FIBRE

Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457

Paper Tape Analyser for Gases Based on Optical Fibres, 661

OPTOSENSING

Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301

Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693

OPTRODE

Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693

Possibilities and Limitations of Continuous Thyroxine Measurement in an Optode Using the Principle of Homogeneous Fluoroimmunoassay, 1423

Optical Sensors. Part 34. Fibre Optic Glucose Biosensor With an Oxygen Optrode as the Transducer, 1519

ORGANIC SOLVENT

On-line Direct Potentiometry of Residual Water in Organic Solvents Using the Proton Isoconcentration Technique, 337

ORGANIC STRUCTURE

ASES/MS: An Automatic Structure Elucidation System for Organic Compounds Using Mass Spectrometric Data, 1261

ORGANOCHLORINE

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

ORGANOMERCURY

Determination of Mercury(II) and Organomercury Compounds by Reversed-phase Liquid Chromatography with Reductive Electrochemical Detection, 243

ORGANOPHOSPHORUS

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

ORGANOPHOSPHORUS PESTICIDE

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

ORGANOTIN

Determination of Fentin Residues in Potatoes and Celery, 1237

Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393

OROTIC ACID

Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321

ORTHOGONAL FUNCTION

Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563

OSMIUM

Sensitive Spectrophotometric Determination of Osmium with Tin(II) Chloride and Rhodamine B after Flotation Using Cyclohexane, 129

Determination of Osmium(VIII) in Aqueous Solution by D.c. Argon Plasma Atomic Emission Spectrometry: Interference Studies, 273

OXAMNIQUINE

Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087

OXAZEPAM

Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443

OXIDANT

Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057

OXIDATION

Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733

OXYGEN

Spectrophotometric Determination of Dissolved Oxygen in Water Through the Formation of an Argentocyanide Complex With Silver Sol, 1601

OXYGEN ELECTRODE

Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035

PADE APPROXIMANT

Use of Padé Approximants in the Processing of pH Titration Data. Determination of the Parameters Involved in the Titration of Acetic Acid, 969

PALLADIUM

Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595

Photoacoustic Spectrometric Determination of Palladium(II) in Water by Dithizone Extraction and Solid Sample Preparation, 1105

PAPER TAPE ANALYSER

Paper Tape Analyser for Gases Based on Optical Fibres, 661

PARR BOMB

Effect of Heating Appliance Type on Parr Bomb Temperature Response Performance, 201

PARTICLE SEPARATION

Comparison of Experimental and Theoretical Fractionating Power for Exponential Field Decay Sedimentation Field-flow Fractionation, 1253

PARTICLE SIZE

Transformations to Reduce the Effect of Particle Size in Near-infrared Spectra, 1849

PEAK PURITY PARAMETER

Comparison of Absorbance Ratios and Peak Purity Parameters for the Discrimination of Solutes Using High-performance Liquid Chromatography With Multi-wavelength Detection, 1625

PENICILLIN

Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxymethylpenicillin by Derivative Spectrophotometry, 569

Iodimetric Determination of Penicillins by a Triangle Programmed Flow-through Titration Technique, 881

Determination of Natural Penicillins in Fermentation Media by High-performance Liquid Chromatography Using Pre-column Derivatisation with 1-Hydroxybenzotriazole, 1197

PENTACHLOROPHENOL

Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625

PENTATHIONATE

Sulphidolysis of Pentathionate and Spectrophotometric Determination of Pentathionate, Thiosulphate and Sulphide in Their Mixtures, 949

PEPPERMINT

Application of Gas - Liquid Chromatography to the Analysis of Essential Oils. Part XIII. Determination of Octan-3-ol in Oils of Peppermint and Mint, 657

PERACID

Gas - Liquid Chromatographic Method for the Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide. Part 2. Determination in Alkaline Solutions, 793

Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide Using a Rapid and Convenient Spectrophotometric Method, 1477

PEROXIDASE

Chemically Immobilised Enzyme Electrodes for Hydrogen Peroxide Determination, 1811

PESTICIDE

Determination of the Fungicide Tricyclazole in River Water, Soil and Animal Samples, 193

Comparative Study of the Electrochemical Behaviour of Sepiolite and Hectorite Modified Carbon Paste Electrodes in the Determination of Dinocap, 621

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Determination of Fentin Residues in Potatoes and Celery, 1237
Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

PETROLEUM

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501
Thermometric Determination of Trace Amounts of Vanadium(V) in Petroleum Products Using the Chromotropic Acid - Bromate Reaction, 505
Spectrofluorimetric Determination of Vanadium(V) in Petroleum Crudes and Basic Slag with Nuclear Fast Red, 987

PH

Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301
Reliable pH Standards, 683
Performance Testing of pH Electrodes Suitable for Low Ionic Strength Solutions, 709
Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739
Use of Padé Approximants in the Processing of pH Titration Data. Determination of the Parameters Involved in the Titration of Acetic Acid, 969

PH SENSOR

Evaluation of Iridium Oxide Electrodes Formed by Potential Cycling as pH Probes, 35

PHENOL

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91
Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99
Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625

PHENOLIC ACID

Determination of Selected Phenolic Acids in Beer Extract by Liquid Chromatography with Voltammetric - Amperometric Detection, 95

PHENOTHIAZINE

Spectrophotometric Determination of Some Phenothiazine Drugs Using 3-Methylbenzothiazolin-2-one Hydrazone, 1267

PHENOXYMETHYLPENICILLIN

Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxyethylpenicillin by Derivative Spectrophotometry, 569

PHOSPHATE

On-line Method for Overcoming Phosphate Interference in the Automated Cadmium Reduction Method for the Determination of Nitrate, 297
Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

PHOSPHOLIPID

Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77

PHOSPHORIC ACID

Performance Testing of pH Electrodes Suitable for Low Ionic Strength Solutions, 709

PHOSPHORUS

Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645

PHOTOACOUSTIC SPECTROSCOPY

Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595

Photoacoustic Spectrometric Determination of Palladium(II) in Water by Dithizone Extraction and Solid Sample Preparation, 1105

PHOTOMETRIC TITRATION

Photometric Determination of Cationic Surfactants, 1249

PHOTO-OXIDATION

Catalytic Effect of Mercury(II) on the Photo-oxidation of EDTA by Iodine: Kinetic Determination of Mercury, 145

PHYLLQUINONE

Determination of Endogenous Vitamin K (Phylloquinone and Menaquinone-*n*) in Plasma by High-performance Liquid Chromatography Using Platinum Oxide Catalyst Reduction and Fluorescence Detection, 393

PLANT GROWTH REGULATOR

Determination of Naphthaleneacetic Acid Residue in Apples by High-performance Liquid Chromatography, 667

PLANT MATERIAL

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91
Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285

Spectrophotometric Determination of Boron in Plants Using Monosegmented Continuous Flow Analysis, 289

Spectrofluorimetric Determination of Gallium with Salicylaldehyde Carbohydrazone and its Application to the Analysis of Biological Samples and Alloys, 443

Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585

Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561

PLASMA

High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229

Determination of Osmium(VIII) in Aqueous Solution by D.c. Argon Plasma Atomic Emission Spectrometry: Interference Studies, 273

Continuous Hydride Generation in Inductively Coupled Plasma Atomic Emission Spectrometry Using a Dual Platinum Grid Nebuliser System, 345

Measurement of Stable Isotopes of Bromine in Biological Fluids with Inductively Coupled Plasma Mass Spectrometry, 405

Determination of Metals in Sewage Sludge by Inductively Coupled Plasma Atomic Emission Spectrometry Using a Simplified Nitric Acid Digestion Method, 413

Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159

Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167

Determination of Chlorthalidone in Human Plasma by Reversed-phase Micellar Liquid Chromatography, 1223

Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299

Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383

Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567

Accurate Measurement of Stable Isotopes of Magnesium in Biological Materials With Inductively Coupled Plasma Mass Spectrometry, 1837

Simple and Rapid Gas Chromatographic Determination of Valproic Acid in Plasma, 1873

PLASTICISER

Tetraheptylammonium Hydrogen Phthalate Membrane Electrodes for the Determination of Plasticiser in Poly(vinyl chloride), 1415

PLATINUM

Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609

POLARITY

Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzo[ghi]perylene Fluorescence Spectra, 1465
Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869

POLAROGRAPHY

Polarographic Adsorption Analysis and Tensammetry: Toys or Tools for Day-to-day Routine Analysis, 3

Application of a Controlled-growth Mercury Drop Electrode to Polarography, 15

Study of the Polarographic Behaviour of Antibiotics. Part II, 21
Electrochemical Reduction of Cefsulodin, 23

Determination of Orotic Acid (Vitamin B₁₂) in Human Serum and Urine by Differential-pulse Polarography, 321

Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479

Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609

Influence of Surfactants on the Gasoline - Water Emulsion. Polarography of Lead and the Determination of Lead in Gasoline, 613

Determination of Isomethiozin by Differential-pulse Polarography, 629

Quantitative and Qualitative Analysis of Saframycins.

Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721

- Determination of Iron in Zircaloy-2 and Zircaloy-4 by Differential-pulse Polarography, 837
- Use of Gelatin in the Differential-pulse Polarographic Determination and Identification of Synthetic Colouring Matters in Drugs and Cosmetics, 853
- Electrochemical Study of the Hallucinogen (\pm)-1-(2,5-Dimethoxy-4-nitrophenyl)-2-aminopropane, 859
- Differential-pulse Polarography Applied to Aromatic Disulphides, 977
- Differential-pulse Polarographic Determination of Nitrate as 3-Nitrobenzoic Acid and Other Nitro Derivatives, 979
- Determination of Tungsten in Composite Nuclear Fuels by Differential-pulse Polarography, 1317
- Polarographic Determination of Free Antimony(III) in Ammonium 5-Tungsto-2-antimonate, 1321
- POLYCYCLIC AROMATIC HYDROCARBON**
- High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509
- POLYETHER**
- Titration in Non-aqueous Media. Part XI. Basicities of Open-chain and Cyclic Polyether Derivatives of Aniline, 965
- POLYETHOXYLATE**
- Pyrolysis Gas Chromatographic Analysis of Alcohol Polyethoxylates with Hydrobromic Acid Cleavage of the Ether Linkages, 1241
- POLYMER**
- Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239
- POLYPYRROLE**
- Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525
- POLYTHIOETHER**
- Copper(II)-selective Electrodes Based on Macrocylic Polythiaethers, 45
- POLY(VINYL CHLORIDE)**
- Tetraheptylammonium Hydrogen Phthalate Membrane Electrodes for the Determination of Plasticiser in Poly(vinyl chloride), 1415
- PORTLAND CEMENT**
- Flocculation Modification to the Method of Determining Chlorine in Portland Cement Concrete Powder, 523
- POTASSIUM**
- Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285
- Measurement of Sodium and Potassium in Clinical Chemistry. A Review, 373
- Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optrodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693
- Spectrophotometric Determination of Potassium in River Water Based on Solvent Extraction of the Complex Formed with a Crown Ether and an Anionic Azo Dye Using Flow Injection, 743
- POTASSIUM HYDROGEN PHTHALATE**
- Possibilities of Application of Some New Algorithms for Standardisation Purposes; Standardisation of Sodium Hydroxide Solution Against Commercial Potassium Hydrogen Phthalate, 833
- POTATO**
- Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229
- Determination of Fentin Residues in Potatoes and Celery, 1237
- POTENTIOMETRY**
- Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using the Proton Isoconcentration Technique, 337
- Chronopotentiometry at a Tubular Graphite Electrode. Part 2. Experimental Verification of Theoretical Results, 493
- Titration in Non-aqueous Media. Part X. Potentiometric and Conductimetric Titrations of Amino Acids with Tetrabutylammonium Hydroxide in Pyridine and Acetonitrile Solvents, 715
- Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
- Potentiometric Monitoring of Proteins. Part IV. Application to Electrophoresis Gels, 875
- Evaluation of Certain Pharmaceuticals with Hexamminecobalt(III) - Tricarbonylcobaltate(III). Part 2. Potentiometric Determination of Some Antimony(III) Compounds, 955
- Titration of Bivalent Metal Ions with Sodium Tetraphenylborate in the Presence of Polyethylene Glycol, 959
- Titration in Non-aqueous Media. Part XI. Basicities of Open-chain and Cyclic Polyether Derivatives of Aniline, 965
- Systematic and Random Errors in Known Subtraction Potentiometry and Analyte Subtraction Potentiometry. A Review, 997
- Titration in Non-aqueous Media. Part XII. Potentiometric Titrations of Symmetrical Aliphatic Dicarboxylic Acids and Some of Their Binary Mixtures in Different Media, 1017
- Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305
- Titration in Non-aqueous Media. Part XIII. Potentiometric and Conductimetric Titrations of α -Amino Acids with Perchloric Acid in Acetic Acid and Acetonitrile - Acetic Acid Solvents, 1313
- Complexation Equilibria of Some Sulphazoines. Part VIII. Complexes of SNAZOXs With Copper(II), Lead(II) and Cadmium(II) Ions Evaluated by Regression Analysis of Potentiometric Data, 1357
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using Cells Without a Liquid Junction Under Proton Isoconcentration Conditions, 1365
- Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409
- Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
- Study of the Copper - Zinc Interference in Potentiometric Stripping Analysis, 1529
- Common Ion Effect in the Determination of Solubility Products by Means of Known Addition Potentiometry, 1743
- POULTRY FEED**
- Determination of Maduramicin Ammonium in Poultry Feedstuffs by High-performance Liquid Chromatography, 813
- Determination of Aprinocid in Poultry Feeds by High-performance Liquid Chromatography, 903
- PRASEODYMIUM**
- Determination of Trace Amounts of Praseodymium by Third-derivative Molecular Absorption Spectrophotometry, 1061
- PRECISION**
- Variation of Precision With Concentration in an Analytical System, 1579
- PRE-CONCENTRATION**
- Pre-concentration of Carbon-14 Labelled Thiocyanate by Ion Exchange, 671
- Selective Collection of Fluoride Ion on an Anion-exchange Resin Loaded with Alizarin Fluorine Blue Sulphonate, 829
- Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799
- Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831
- PRINCIPAL COMPONENT ANALYSIS**
- Transformations to Reduce the Effect of Particle Size in Near-infrared Spectra, 1849
- PRINCIPAL COMPONENTS**
- Reconstruction of Constituent Spectra from Near Infrared Sample Spectra Using Principal Components, 269
- PROBE**
- Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869
- PROCYANIDIN**
- Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99
- PROPELLER CROWN**
- Comparison of the Selectivity of Propeller Crowns in Poly(vinyl chloride) Membrane Ion-selective Electrodes, 895
- PROPRANOLOL**
- Kinetic Determination of Propranolol in Drug Formulations, 149
- PROTEIN**
- Potentiometric Monitoring of Proteins. Part IV. Application to Electrophoresis Gels, 875
- Spectrophotometric Determination of Browning Products of Glycation of Protein Amino Groups Based on Their Reactivity with Nitro Blue Tetrazolium Salts, 1101
- PROTEIN PRECIPITATION**
- Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633
- PROTON ISOCONCENTRATION**
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using the Proton Isoconcentration Technique, 337
- Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using Cells Without a Liquid Junction Under Proton Isoconcentration Conditions, 1365
- Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
- PYRENE**
- Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzo[ghi]perylene Fluorescence Spectra, 1465

Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869

PYRETHROID

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

PYRIDOXINE

Spectrophotometric Determination of Pyridoxine Hydrochloride in Pharmaceutical Samples, 1097

PYROGALLOL

Prospects of Using Chemiluminescence Emission Generated During Oxidation of Pyrogallol with Periodate for the Determination of Pyrogallol with Flow Injection, 1051

PYROLYSIS

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501

Pyrolysis Gas Chromatographic Analysis of Alcohol Polyethoxylates with Hydrobromic Acid Cleavage of the Ether Linkages, 1241

PYROLYTIC GRAPHITE

Characterisation of Highly Ordered Pyrolytic Graphite with Covalently Attached Ferritin by Electron Probe Microanalysis, 341

QUINIDINE

Determination of Cinchonine and Quinidine in Mixtures by Zero-crossing First-derivative Spectrofluorimetry, 929

RADIOACTIVATION ANALYSIS

Simultaneous Determination of Bromine and Chlorine in Cow's Milk by Radioactivation Analysis, 515

RADIOLIGAND-BINDING ASSAY

Elimination of Avidin Losses in Radioligand-binding Assay, 687

RAIN WATER

Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301

RANCIDITY

Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213

RAPESEED

Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355

Improved Method for the Determination of the Total Glucosinolate Content of Rapeseed by Determination of Enzymically Released Glucose, 1515

RARE EARTH

Determination of Trace Amounts of Praseodymium by Third-derivative Molecular Absorption Spectrophotometry, 1061
Advances in the Analytical Chromatography of the Lanthanides. A Review, 1757

RATE CONSTANT

Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733

REDUCTION

On-line Method for Overcoming Phosphate Interference in the Automated Cadmium Reduction Method for the Determination of Nitrate, 297

REFERENCE MATERIAL

Determination of Nanogram Amounts of Iodine by Chemisorption on Metals and Subsequent Isotope Dilution. Application to Biological Reference Materials, 973

Simultaneous Determination of Cadmium, Indium and Tin in Standard Reference Materials Using Sub-stoichiometric Extraction of Indium Radioisotopes, 1121

Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383

REFLECTANCE

Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457

REFLECTANCE SPECTROSCOPY

Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301

REFORMING CATALYST

Thermogravimetric Determination of Chlorine in Reforming Catalysts, 669

REGRESSION

Complexation Equilibria of Some Sulphaoxazines. Part VIII. Complexes of SNAZOXS With Copper(II), Lead(II) and Cadmium(II) Ions Evaluated by Regression Analysis of Potentiometric Data, 1357

REPEATABILITY

Variation of Precision With Concentration in an Analytical System, 1579

RESIDUE

Determination of Residues of a Range of Fungicides, Anti-sprouting Agents and (Organochlorine and Organophosphorus) Insecticides in Potatoes by Gas - Liquid and High-performance Liquid Chromatography, 1229

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

Determination of Chloramphenicol in Tissues—Problems With *In Vitro* Metabolism, 1875

RESIN

Determination of Oligomer 340 and Polyamines in Cured Epoxy Resins by Extraction and High-performance Liquid Chromatography, 239

Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773

REVIEW

Rancidity and its Measurement in Edible Oils and Snack Foods. A Review, 213

Measurement of Sodium and Potassium in Clinical Chemistry. A Review, 373

Systematic and Random Errors in Known Subtraction Potentiometry and Analyte Subtraction Potentiometry. A Review, 997

Basic Statistical Methods for Analytical Chemistry. Part I. Statistics of Repeated Measurements. A Review, 1351

Extraction, Clean-up and Chromatographic Determination of Organophosphate, Pyrethroid and Carbamate Insecticides in Grain and Grain Products. A Review, 1493

Advances in the Analytical Chromatography of the Lanthanides. A Review, 1757

RHODIUM

Spectrophotometric and Analogue Derivative Spectrophotometric Determination of Rhodium(III) with 2-(5-Bromo-2-pyridylazo)-5-(N-propyl-N-sulphopropylamino)phenol, 519

SAFRAMYCIN

Quantitative and Qualitative Analysis of Saframycins. Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721

SALICYLATE

Liquid Membrane Electrode for Selective Determination of Salicylate in Pharmaceutical Preparations, 1709

SALT

Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869

SAMPLE INTRODUCTION

Micro-sampling Atomic Absorption Spectrometry Using Sample Drops on a Rotating Polytetrafluoroethylene Plate, 1687

SCATTER CORRECTION

Comparative Study of Methods of Linearisation and Scatter Correction in Near Infrared Reflectance Spectroscopy, 263

SEA WATER

Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773

Determination of Fluoride in Drinking Water and Sea Water by Aluminium Monofluoride Molecular Absorption Spectrometry Using an Electrothermal Graphite Furnace, 1109

SEDIMENTATION

Comparison of Experimental and Theoretical Fractionating Power for Exponential Field Decay Sedimentation Field-flow Fractionation, 1253

SEGMENTOR

Segmented Flow Injection - Solvent Extraction Analysis, 1861

SELECTED ION MONITORING

Comparison of Two Calculation Procedures for Gas Chromatography - Mass Spectrometry Associated With Stable Isotope Dilution, 1843

SELENIUM

Determination of Arsenic in Selenium Metal or in the Presence of High Levels of Selenium by Hydride Generation Atomic Absorption Spectrometry, 277

Comparison of Methods for the Determination of Selenium in Biological Fluids, 281

Determination of Selenium by Hydride Generation Ultraviolet - Visible Molecular Absorption Spectrometry With Diode-array Detection, 1387

Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431

Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855

SEMI-AUTOMATIC METHOD

Direct Rate Measurements on Millisecond Reactions by Continuous Addition of Reagent for Routine Analysis, 1733

SEMICARBAZIDE HYDROCHLORIDE

Semicarbazide Hydrochloride as an Absorbing Reagent for the Fixation of Atmospheric Sulphur Dioxide, 825

SENSOR

Copper(II)-selective Electrodes Based on Macrocyclic Polythiaethers, 45

- Studies on Crown Ether Based Potentiometric Sensors for 4,4'-Dipyridinium and Related Dications, 65
- Enzyme Sensor for the Determination of Choline-containing Phospholipids in Some Biological Fluids, 77
- Chemically Immobilised Tri-enzyme Electrode for the Determination of Sucrose Using Flow Injection Analysis, 81
- Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103
- Rapid Prediction of Banana Fruit Maturation Using a Glucose Biosensor, 225
- Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- Application of Kubelka - Munk Diffuse Reflectance Theory to Optical Fibre Sensors, 457
- Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693
- Poly(vinyl chloride) Matrix Membrane Uranyl Ion-selective Electrodes Based on Organophosphorus Sensors, 699
- Solvent Polymeric Membranes Combined with Chemical Solid-state Sensors, 1029
- Alkali and Alkaline Earth Metal Ion-sensing Studies on Two Disubstituted Diphenyl Ethers of Tetraethylene Glycol, 1295
- Factors Concerning the Design and Calibration of an Amperometric Enzyme Electrode System for the Flow Injection Analysis of Cholesterol, 1419
- Optical Sensors. Part 34. Fibre Optic Glucose Biosensor With an Oxygen Optrode as the Transducer, 1519
- Chloride Chemical Sensor Based on an Organic Conducting Polypyrrole Polymer, 1525
- Modified Poly(vinyl chloride) Matrix Membranes for Ion-selective Field Effect Transistor Sensors, 1703
- SERUM**
- Fluorimetric Determination of Calcium in Serum with Calcein Blue, 251
- Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321
- Determination of Thiocyanate in Human Serum by Ion Chromatography, 389
- Determination of Glucose in Clinical Samples by Flow Reversal Flow Injection Analysis, 475
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Rapid Method for Determining Very Low Fluoride Concentrations Using an Ion-selective Electrode, 1299
- Voltammetric Behaviour of All-trans-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
- Determination of Selenium in Biological Materials by Neutron Activation Analysis, 1855
- SERUM ALBUMIN**
- Fluorimetric Determination of Human Serum Albumin with Eriochrome Cyanine R, 679
- SEWAGE SLUDGE**
- Determination of Metals in Sewage Sludge by Inductively Coupled Plasma Atomic Emission Spectrometry Using a Simplified Nitric Acid Digestion Method, 413
- SIGNAL OPTIMISATION**
- Optimisation of a Compact Single-laser - Dual-beam Thermal Lens Apparatus, 1113
- SIGNAL TREATMENT**
- Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
- SIGNIFICANCE TESTING**
- Basic Statistical Methods for Analytical Chemistry. Part I. Statistics of Repeated Measurements. A Review, 1351
- SILICA**
- X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737
- SILICA GEL**
- Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781
- SILVER**
- Extraction - Spectrofluorimetric Determination of Silver Ion Using Benzothiacrown Ether and Eosin, 551
- Determination of Trace Amounts of Mercury(II) and Silver(I): a Catalytic Method, 983
- On-line Separation of Silver With the Chelate-forming Resin Amberlite XAD-2 - PAR Prior to its Determination by Flame Atomic Absorption Spectrometry, 1571
- SILVER ELECTRODE**
- Effect of Temperature on the Response Characteristics of Ion-selective Electrodes Based on Solid Silver Salts Applied to Electrically Conductive Epoxy Supports, 49
- SILVER SOL**
- Spectrophotometric Determination of Dissolved Oxygen in Water Through the Formation of an Argentocyanide Complex With Silver Sol, 1601
- SIZE-EXCLUSION CHROMATOGRAPHY**
- Liquid Chromatographic - Mass Spectrometric Analysis of Coal Tar Fractions, 797
- SLAG**
- Spectrofluorimetric Determination of Vanadium(V) in Petroleum Crudes and Basic Slag with Nuclear Fast Red, 987
- SMELTER PRODUCTS**
- Determination of Sulphide Sulphur and Total Sulphur in Lead - Zinc Concentrates and Related Smelter Products by an Evolution Technique, 313
- SMOKE COLLECTION**
- Evaluation of an Apparatus Designed for the Collection of Sidestream Tobacco Smoke, 1509
- SODIUM**
- Measurement of Sodium and Potassium in Clinical Chemistry. A Review, 373
- SODIUM HYDROXIDE**
- Possibilities of Application of Some New Algorithms for Standardisation Purposes; Standardisation of Sodium Hydroxide Solution Against Commercial Potassium Hydrogen Phthalate, 833
- SOFT DRINK**
- Graphite Paste-based Enzymatic Glucose Electrode for Flow Injection Analysis, 735
- Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765
- Amperometric Determination of *p*-Hydroxybenzoic Acid Esters Using an Oxygen Electrode, 1035
- SOIL**
- Determination of the Fungicide Tricyclazole in River Water, Soil and Animal Samples, 193
- High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509
- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585
- Determination of Isomethiozin by Differential-pulse Polarography, 629
- Separation of Inositol Phosphates by High-performance Ion-exchange Chromatography, 645
- Use of a Cadmium - New Cadion - Emulsifier OP Complex for the Spectrophotometric Determination of Available Cadmium in Acidic Soils, 1329
- SOLUBILITY PRODUCT**
- Common Ion Effect in the Determination of Solubility Products by Means of Known Addition Potentiometry, 1743
- SOLUTE PROBE**
- Benzo[ghi]perylene versus Pyrene as Solute Probes for Polarity Determination of Liquid Organic Salts Used in Chromatography, 1869
- SOLVENT**
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using the Proton Isoconcentration Technique, 337
- Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
- On-line Direct Potentiometry of Residual Water in Organic Solvents Using Cells Without a Liquid Junction Under Proton Isoconcentration Conditions, 1365
- SOLVENT EXTRACTION**
- Segmented Flow Injection - Solvent Extraction Analysis, 1861
- SOLVENT POLARITY**
- Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzo[ghi]perylene Fluorescence Spectra, 1465
- SPARK-SOURCE MASS SPECTROMETRY**
- Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923
- SPECIATION**
- Speciation of Mercury Using Liquid Chromatography with Detection by Inductively Coupled Plasma Mass Spectrometry, 1167
- SPECTROFLUORIMETRY**
- Fluorimetric Determination of Calcium in Serum with Calcein Blue, 251
- Comparison of Methods for the Determination of Selenium in Biological Fluids, 281
- Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437

- Spectrofluorimetric Determination of Gallium with Salicylaldehyde Carbohydrazone and its Application to the Analysis of Biological Samples and Alloys, 443
- Use of Micellar Solutions to Improve the Fluorescence Determination of 2-Naphthol, 447
- Determination of Uranium in Minerals by Laser Fluorimetry, 451
- High-performance Liquid Chromatographic Separation and Synchronous Fluorimetric Determination of Polycyclic Aromatic Hydrocarbons in Soils, 509
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part I. Spectral Changes and Uncorrected Temperature Coefficients, 533
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part II. Effect of Experimental Parameters on the Observed Temperature Coefficients, 537
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part III. Correction of Temperature Coefficients for Solvent Scatter Interference, 543
- Use of Salicylaldehyde Carbohydrazone as a Reagent for the Determination of Trace Amounts of Zinc in Biological Samples and Alloys, 547
- Extraction - Spectrofluorimetric Determination of Silver Ion Using Benzothiacrown Ether and Eosin, 551
- Kinetic - Fluorimetric Determination of Flavonoids at the Nanomole Level, 555
- Stopped-flow Fluorimetric Determination of Theophylline in Pharmaceutical Preparations, 559
- Fluorimetric Determination of Human Serum Albumin with Eriochrome Cyanine R, 679
- Optical Sensors. Part 23. Effect of Langmuir - Blodgett Layer Composition on the Response of Ion-selective Optodes for Potassium, Based on the Fluorimetric Measurement of Membrane Potential, 693
- Determination of Cinchonine and Quinidine in Mixtures by Zero-crossing First-derivative Spectrofluorimetry, 929
- Fluorescence Reactions of the Dysprosium(III) - Tiron - Calcium(II) Mixed-metal Complex, 933
- Spectrophotometric and Spectrofluorimetric Determination of the Ternary Complexes of Cadmium(II) and Zinc(II) with 2,2'-Bipyridine and Rose Bengal Extra, 941
- Spectrofluorimetric Determination of Vanadium(V) in Petroleum Crudes and Basic Slag with Nuclear Fast Red, 987
- Fluorescence Spectrophotometric Determination of Lithium Ion Based on 1,3-Bis(8-quinolyloxy)propane Derivatives, 1065
- Determination of Some Two- and Three-ring Aromatic Hydrocarbons by Combined Gas Chromatography - Fluorescence Spectrometry, 1175
- Di-2-pyridyl Ketone 2-Furoylhydrazone as a Reagent for the Fluorimetric Determination of Low Concentrations of Gallium and its Application to Biological Samples, 1283
- N-(3-Hydroxy-2-pyridyl)salicylaldimine as a Reagent for the Selective Fluorimetric Determination of Aluminium in Waters, 1287
- Fluorimetric Determination of Trace Amounts of Yttrium with Salicylaldehyde Carbohydrazone, 1291
- Simultaneous Determination of Aluminium and Zinc by First- and Second-derivative Synchronous Fluorimetry, 1435
- Use of 4-(6-Methylnaphthalen-2-yl)-4-oxobut-2-enoic Acid as a Reagent for the Spectrophotometric and Fluorimetric Determination of Aliphatic Thiol Drugs, 1447
- Fluorescence Enhancement of the Europium(III) - Thenoyltrifluoroacetone - Trioctylphosphine Oxide Ternary Complex by Gadolinium(III) and its Application to the Determination of Europium(III), 1453
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- Py and BPe Solvent Polarity Scales: Effect of Temperature on Pyrene and Benzofluoranthene Fluorescence Spectra, 1465
- Spectrofluorimetric Determination of *N*-Nitroso-*N*-methylurea With Sodium Sulphide, Taurine and *o*-Phthalaldehyde, 1669
- SPECTROMETRY**
- Indirect Voltammetric and Atomic Absorption Spectrometric Determination of Caffeine, 121
- On-line Pre-concentration and Determination of Lead in Potable Water by Flow Injection Atomic Absorption Spectrometry, 125
- Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159
- Determination of Microgram Amounts of Zirconium in Geological Materials by Coprecipitation with Iron(III) Hydroxide and X-ray Fluorescence Spectrometry, 197
- Comparative Study of Methods of Linearisation and Scatter Correction in Near Infrared Reflectance Spectroscopy, 263
- Reconstruction of Constituent Spectra from Near Infrared Sample Spectra Using Principal Components, 269
- Determination of Osmium(VIII) in Aqueous Solution by D.c. Argon Plasma Atomic Emission Spectrometry: Interference Studies, 273
- Determination of Arsenic in Selenium Metal or in the Presence of High Levels of Selenium by Hydride Generation Atomic Absorption Spectrometry, 277
- Comparison of Methods for the Determination of Selenium in Biological Fluids, 281
- Laser Ashing: An Alternative Decomposition Method. Part 1. Determination of Ca, Mg and K in Plant Material by Flame Atomic Absorption Spectrometry, 285
- Continuous Hydride Generation in Inductively Coupled Plasma Atomic Emission Spectrometry Using a Dual Platinum Grid Nebuliser System, 345
- Fluorescence Inner Filtering in Double-pass Cell Configurations. Part 4. Interdependence of Primary and Secondary Inner Filtering, 347
- Determination of Glucosinolate in Rapeseed Meal by Infrared Spectrometry, 355
- Determination of Metals After Collection of Their Acenaphthenequinone Dioxime Complexes on Microcrystalline Naphthalene, 423
- Separation and Concentration of Beryllium by Coprecipitation with Hafnium Hydroxide Prior to Determination by Graphite Furnace Atomic Absorption Spectrometry, 581
- Interferences in the Determination of Chromium in Plant Materials and Soil Samples by Flame Atomic Absorption Spectrometry, 585
- Determination of Lead in Blood Using Flow Injection and a Nebuliser Interface for Flame Atomic Absorption Spectrometry, 591
- Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- H-point Standard Additions Method. Part 1. Fundamentals and Application to Analytical Spectroscopy, 1011
- Photoacoustic Spectrometric Determination of Palladium(II) in Water by Dithizone Extraction and Solid Sample Preparation, 1105
- Determination of Fluoride in Drinking Water and Sea Water by Aluminium Monofluoride Molecular Absorption Spectrometry Using an Electrothermal Graphite Furnace, 1109
- Optimisation of a Compact Single-laser - Dual-beam Thermal Lens Apparatus, 1113
- Direct ¹H NMR Determination of the Enantiomeric Excess of Carnitine, 1143
- Coupled Chromatography - Atomic Spectrometry for Arsenic Speciation—a Comparative Study, 1159
- Rapid Determination of Arsenic in the Presence of Lead in a Zinc Sulphide Matrix by X-ray Fluorescence Spectrometry, 1325
- Determination of Trace Amounts of Tin by Hydride Generation Direct Current Plasma Atomic Emission Spectrometry: Interference Reduction by L-Cysteine, 1377
- Determination of Antimony in Geological Samples Using Hydride Generation and Direct Current Plasma Atomic Emission Spectrometry, 1567
- On-line Separation of Silver With the Chelate-forming Resin Amberlite XAD-2 - PAR Prior to its Determination by Flame Atomic Absorption Spectrometry, 1571
- Micro-sampling Atomic Absorption Spectrometry Using Sample Drops on a Rotating Polytetrafluoroethylene Plate, 1687
- Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
- Acid-soluble Membrane Filter for the Pre-concentration and Electrothermal Atomisation Atomic Absorption Spectrometric Determination of Trace Levels of Cadmium in Water, 1695
- Monohalogenobenzoylhydrazones as Ligands in Extraction - Atomic Absorption Spectrometry, 1699
- Transformations to Reduce the Effect of Particle Size in Near-infrared Spectra, 1849
- SPECTROPHOTOMETRY**
- Sensitive Spectrophotometric Determination of Osmium with Tin(II) Chloride and Rhodamine B after Flotation Using Cyclohexane, 129
- Application of 3-Methylbenzothiazolin-2-one Hydrazone as a Chromogenic Reagent for the Spectrophotometric Determination of Certain Sulpha Drugs, 133
- Spectrophotometric Methods for the Determination of Some Diuretics Using 3-Methyl-2-benzothiazolinone Hydrazone, 255
- Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259
- Determination of Clonazepam by Flow Injection Analysis, 317

- Spectrophotometric Determination of Sulphite, Sulphate and Dithionate in the Presence of Each Other, 351
- Microdetermination of Fluoride in Water by Ion-exchange Spectrophotometry, 419
- Determination of Neodymium with 1-(2-Pyridylazo)-2-Naphthol by High-order Derivative Spectrophotometry. Application to the Determination of Neodymium in Glasses, 429
- Kinetic - Spectrophotometric Determination of Manganese(II) at the Nanogram Level Based on its Catalytic Effect on the Oxidation of an Azo Dye with Hydrogen Peroxide, 433
- Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471
- Spectrophotometric and Analogue Derivative Spectrophotometric Determination of Rhodium(III) with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)phenol, 519
- Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563
- Determination of *p*-Hydroxyphenoxymethylpenicillin in Phenoxymethylpenicillin by Derivative Spectrophotometry, 569
- Kinetic - Spectrophotometric Determination of Low Cyanide Concentrations in the Presence of Large Amounts of Thiocyanate, 573
- Use of Haematoxylin in an Improved Method for the Determination of Ultramicro Amounts of Aluminium, 577
- Separation of Molybdenum by Extraction of Molybdenum(VI) - 1,10-Phenanthroline with Isobutyl Methyl Ketone, 675
- Spectrophotometric Determination of Potassium in River Water Based on Solvent Extraction of the Complex Formed with a Crown Ether and an Anionic Azo Dye Using Flow Injection, 743
- Spectrophotometric Determination of Anionic Surfactants in Water After Solvent Extraction Coupled with Flow Injection, 747
- Automated Flow Injection Spectrophotometric Non-aqueous Pseudotitrations of Amines and Their Hydrohalide Salts, 755
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765
- Analytical Applications of Microemulsions. Spectrophotometric Determination of Zinc Using Dithizone, 769
- Determination of Iron in Aluminium and Nickel Metals, Non-ferrous Alloys, Feldspar and Portland Cement Using Morin and Triton X-100, 937
- Spectrophotometric and Spectrofluorimetric Determination of the Ternary Complexes of Cadmium(II) and Zinc(II) with 2,2'-Bipyridine and Rose Bengal Extra, 941
- Spectrophotometric Determination of Iodide at the 10^{-6} mol l $^{-1}$ Level by Solvent Extraction with Methylene Blue, 945
- Sulphidolysis of Pentathionate and Spectrophotometric Determination of Pentathionate, Thiosulphate and Sulphide in Their Mixtures, 949
- Determination of Trace Amounts of Mercury(II) and Silver(I): a Catalytic Method, 983
- Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057
- Determination of Trace Amounts of Praseodymium by Third-derivative Molecular Absorption Spectrophotometry, 1061
- Spectrophotometric Determination of Boron in Water with Prior Distillation and Hydrolysis of the Methyl Borate, 1069
- Spectrophotometric Determination of Nitrite in Water, 1073
- "Zero-crossing" Derivative Spectrophotometric Determination of Mixtures of Cephalirin Sodium and Cefuroxime Sodium in Pure Form and in Injections, 1077
- Spectrophotometric Determination of Certain Cephalosporins Using Molybdophosphoric Acid, 1083
- Spectrophotometric Determination of Some Pharmaceutically Important Nitro Compounds in Their Dosage Forms, 1087
- Spectrophotometric Determination of Isoniazid Using 6,7-Dichloroquinoline-5,8-dione, 1091
- Spectrophotometric Determination of Pyridoxine Hydrochloride in Pharmaceutical Samples, 1097
- Spectrophotometric Determination of Browning Products of Glycation of Protein Amino Groups Based on Their Reactivity with Nitro Blue Tetrazolium Salts, 1101
- Derivative Spectrophotometric Determination of Clemastine Fumarate in Pharmaceutical Preparations, 1137
- Spectrophotometric Determination of Trimethylamine Nitrogen in Raw Waters Using Picric Acid, 1139
- Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189
- Spectrophotometric Determination of Some Phenothiazine Drugs Using 3-Methylbenzothiazolin-2-one Hydrazone, 1267
- Spectrophotometric Method for the Determination of Total Cyanide in Wastewater Samples, 1273
- Determination of Gallium and Indium with Haematoxylin in a Micellar Medium, 1277
- Use of a Cadmium - New Cation - Emulsifier OP Complex for the Spectrophotometric Determination of Available Cadmium in Acidic Soils, 1329
- Spectrophotometric Determination of *N*-Nitroso Compounds by Flow Injection Analysis, 1333
- Spectrophotometric Determination of Iron in Acids, 1341
- Simultaneous Determination of Cobalt and Nickel by First-derivative Spectrophotometry, 1439
- Determination of Diazepam and Oxazepam Using High-performance Liquid Chromatography and Fourth-derivative Spectrophotometric Techniques, 1443
- Use of 4-(6-Methylnaphthalen-2-yl)-4-oxobut-2-enoic Acid as a Reagent for the Spectrophotometric and Fluorimetric Determination of Aliphatic Thiol Drugs, 1447
- Spectrophotometric Determination of Trace Amounts of Tellurium(IV) with Tetramethylthiourea, 1473
- Determination of Peracids in the Presence of a Large Excess of Hydrogen Peroxide Using a Rapid and Convenient Spectrophotometric Method, 1477
- Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481
- Determination of Trace Amounts of Aluminium in Tap Water by Spectrophotometry After Collection on a Membrane Filter Using Chrome Azurol S and Zephiramine, 1545
- Simultaneous Determination of Iron(III) and Total Iron by Flow Injection Analysis Using Kinetic Spectrophotometry With Tiron, 1557
- Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561
- Inverse Spectrophotometric Detection in Flow Injection Analysis: Determination of Nitrite Using Cerium(IV) as the Chromophore, 1597
- Spectrophotometric Determination of Dissolved Oxygen in Water Through the Formation of an Argentocyanide Complex With Silver Sol, 1601
- Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605
- Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631
- Improvements to the Ethylene Blue Method for the Determination of Hydrogen Sulphide in Air, 1635
- Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdo-sulphate Complex, 1639
- Spectrophotometric Study of the Complexation Equilibria of Zirconium(IV) With 1-Amino-4-hydroxyanthraquinone and the Determination of Zirconium, 1643
- Spectrophotometric Method for the Determination of Thallium(III) With Chlorpromazine Hydrochloride, 1649
- Spectrophotometric Determination of Clotquinol and Didoquinol in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximinocyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657
- Spectrophotometric Determination of 4-Aminoantipyrine in Aqueous Solution by Coupling With Diazotised 4-Nitroaniline, 1661
- Specific Determination of Azathioprine in Solution by a Spectrophotometric Method and its Application to a Tablet Assay, 1665
- Flow Injection Determination of Drugs by Specific Detection of Carboxylic Acids, 1673
- Spectrophotometric Determination of Low Levels of Anionic Surfactants in Water by Solvent Extraction in a Flow Injection System, 1677
- Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683
- Spectrophotometric Determination of Maprotiline Hydrochloride, 1745
- Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781
- Spectrophotometric Determination of Nickel(II), Iron(II), Boric Acid and Chloride in Plating Baths by Flow Injection Analysis, 1821
- Flow Injection Spectrophotometric Determination of Copper(II) Using the Iron(III) - Thiosulphate Catalytic Reaction, 1827
- Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831
- STABILITY-INDICATING ASSAY**
- Specific Determination of Azathioprine in Solution by a Spectrophotometric Method and its Application to a Tablet Assay, 1665

STAIN

Improved Toluidine Blue Stain Mountant for the Microscopy of Food Products, 365

STANDARD

Reliable pH Standards, 683

STANDARD ADDITIONS

H-point Standard Additions Method. Part 1. Fundamentals and Application to Analytical Spectroscopy, 1011

STANDARD DEVIATION

Variation of Precision With Concentration in an Analytical System, 1579

STANDARDISATION

Possibilities of Application of Some New Algorithms for Standardisation Purposes; Standardisation of Sodium Hydroxide Solution Against Commercial Potassium Hydrogen Phthalate, 833

STATISTICS

Basic Statistical Methods for Analytical Chemistry. Part I. Statistics of Repeated Measurements. A Review, 1351

Complexation Equilibria of Some Sulphazoxines. Part VIII.

Complexes of SNAZOXS With Copper(II), Lead(II) and Cadmium(II) Ions Evaluated by Regression Analysis of Potentiometric Data, 1357

Uses (Proper and Improper) of Correlation Coefficients, 1469

Variation of Precision With Concentration in an Analytical System, 1579

STEEL

Use of Haematoxylin in an Improved Method for the Determination of Ultramicro Amounts of Aluminium, 577
Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057

STERIOD

Determination of Steroids Using Rapid High-performance Liquid Chromatography with Diode Array Detection, 165

Some Applications of Chromatography to Steroid Analysis in the Horse, 1179

STRAW

Electrochemical Detection in the High-performance Liquid Chromatographic Analysis of Plant Phenolics, 91

STRIPPING

Differential-pulse Adsorptive Stripping Voltammetry of the Psychotropic Drugs Triazolam and Clotiazepam, 27

Application of Adsorptive Stripping Voltammetry for a Study of the Reaction of Mouse IgG with Anti-mouse IgG, 31

Studies on the Complexation Properties of Casein with Lead by Potentiometric Stripping Analysis, 87

Reductive Differential-pulse Adsorptive Stripping Voltammetric Determination of Molybdenum as 12-Molybdophosphoric Acid or as Molybdic Acid at a Hanging Mercury Drop Electrode, 361

Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609

Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869

Determination of Thiocytosine Using its Enhancement Effect on the Copper Anodic Stripping Wave, 1047

Differential-pulse Adsorptive Stripping Voltammetric Method for the Determination of Nitrite at p.p.b. Levels after Diazotisation of Aniline and Coupling with Azulene and its Modification for the Determination of Aromatic Amines, 1337

Differential-pulse Adsorptive Stripping Voltammetric Method for the Determination of Nitrite at p.p.b. Levels after Diazotisation of Aniline and Coupling with Azulene and its Modification for the Determination of Aromatic Amines, 1337

Determination of Total Sulphur in Ethanol by Reduction Using Raney Nickel and Detection by Cathodic Stripping Voltammetry, 1427

Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431

Medium Effects in the Stripping Voltammetry of Mercury, 1533

Study of the Copper - Zinc Interference in Potentiometric Stripping Analysis, 1529

Application of Adsorptive Stripping Voltammetry to the Study of the Reaction of Immunoglobulin E With Anti-immunoglobulin E, 1795

STRUCTURE ELUCIDATION

ASES/MS: An Automatic Structure Elucidation System for Organic Compounds Using Mass Spectrometric Data, 1261

SUBTRACTION POTENTIOMETRY

Systematic and Random Errors in Known Subtraction Potentiometry and Analyte Subtraction Potentiometry. A Review, 997

SUCROSE

Chemically Immobilised Tri-enzyme Electrode for the Determination of Sucrose Using Flow Injection Analysis, 81

SUGAR

Observations on the 4-Hydroxybenzoylhydrazide Methods for the Determination of Carbohydrates, 841

Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401

SULPHA DRUG

Application of 3-Methylbenzothiazolin-2-one Hydrazone as a Chromogenic Reagent for the Spectrophotometric Determination of Certain Sulpha Drugs, 133

Titrimetric Methods for the Determination of Some Sulpha Drugs Using *N*-Bromophthalimide and *N*-Bromosaccharin, 1369

SULPHADIMIDINE

Determination of Sulphadimidine in Animal Feeds by High-performance Liquid Chromatography, 1397

SULPHATE

Spectrophotometric Determination of Sulphite, Sulphate and Dithionate in the Presence of Each Other, 351

Characterisation of Poly(vinyl chloride) Barium Ion-selective Electrodes Without an Internal Reference Solution, 1023

Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409

Investigation of the Negative Sulphate Peaks Obtained in the Analysis of High-concentration Chloride Solutions by Ion Chromatography, 1589

Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdosulphate Complex, 1639

Continuous Flow Determination of Sulphate With a Lead-selective Electrode, 1817

SULPHIDE

Determination of Low Sulphide and Cyanide Levels in Biochemical and Environmental Control Using a Deposited-on-Wire Ag - Ag₂S Electrode, 71

Determination of Sulphide Sulphur and Total Sulphur in Lead - Zinc Concentrates and Related Smelter Products by an Evolution Technique, 313

Determination of Sulphide in Blood with an Ion-selective Electrode by Pre-concentration of Trapped Sulphide in Sodium Hydroxide Solution, 839

Determination of Sulphide Using Flow Injection Analysis with a Coated Tubular Solid-state Silver Sulphide Ion-selective Electrode, 885

Sulphidolysis of Pentathionate and Spectrophotometric Determination of Pentathionate, Thiosulphate and Sulphide in Their Mixtures, 949

Differential-pulse Polarography Applied to Aromatic Disulphides, 977

SULPHIDOLYSIS

Sulphidolysis of Pentathionate and Spectrophotometric Determination of Pentathionate, Thiosulphate and Sulphide in Their Mixtures, 949

SULPHITE

Spectrophotometric Determination of Sulphite, Sulphate and Dithionate in the Presence of Each Other, 351

Continuous-flow Chemiluminescence Determination of Sulphite and Sulphur Dioxide, 603

SULPHOAZOXINE

Complexation Equilibria of Some Sulphazoxines. Part VIII.

Complexes of SNAZOXS With Copper(II), Lead(II) and Cadmium(II) Ions Evaluated by Regression Analysis of Potentiometric Data, 1357

SULPHONAMIDE

Application of 3-Methylbenzothiazolin-2-one Hydrazone as a Chromogenic Reagent for the Spectrophotometric Determination of Certain Sulpha Drugs, 133

SULPHUR

Effect of Heating Appliance Type on Parr Bomb Temperature Response Performance, 201

Determination of Sulphide Sulphur and Total Sulphur in Lead - Zinc Concentrates and Related Smelter Products by an Evolution Technique, 313

Determination of Total Sulphur and Nitrogen in Crude Oil Products by Oxidative Pyrolysis with Detection Using a Metal-plated Membrane Electrode, 501

Determination of Total Sulphur in Ethanol by Reduction Using Raney Nickel and Detection by Cathodic Stripping Voltammetry, 1427

SULPHUR DIOXIDE

Chemiluminescence Method for the Direct Determination of Sulphur Dioxide, 139

Continuous-flow Chemiluminescence Determination of Sulphite and Sulphur Dioxide, 603

Semicarbazide Hydrochloride as an Absorbing Reagent for the Fixation of Atmospheric Sulphur Dioxide, 825

SULPHUR LIGANDS

Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds With Heteroatoms. Part II. Complexing Compounds Containing Sulphur Atoms, 1803

SURFACE IONISATION DETECTOR

Some Applications of the Surface Ionisation Detector in Gas Chromatography, 789

SURFACTANT

- Determination of Ionic Surfactants by Flow Injection Pseudotitration, 117
- Influence of Surfactants on the Gasoline - Water Emulsion. Polarography of Lead and the Determination of Lead in Gasoline, 613
- Spectrophotometric Determination of Anionic Surfactants in Water After Solvent Extraction Coupled with Flow Injection, 747
- Photometric Determination of Cationic Surfactants, 1249
- Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305
- Spectrophotometric Determination of Low Levels of Anionic Surfactants in Water by Solvent Extraction in a Flow Injection System, 1677

SWEETENER

- Spectrophotometric Determination of Aspartame in Soft Drinks with Ninhydrin as Reagent, 765

TAP WATER

- Determination of Trace Amounts of Aluminium in Tap Water by Spectrophotometry After Collection on a Membrane Filter Using Chrome Azurol S and Zephramine, 1545

TEA

- Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479

TELLURIUM

- Spectrophotometric Determination of Trace Amounts of Tellurium(IV) with Tetramethylthiourea, 1473

TEMPERATURE COEFFICIENT

- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part I. Spectral Changes and Uncorrected Temperature Coefficients, 533
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part II. Effect of Experimental Parameters on the Observed Temperature Coefficients, 537
- Effect of Variation of Temperature on Second-derivative Fluorescence Spectra. Part III. Correction of Temperature Coefficients for Solvent Scatter Interference, 543

TENSAMMETRY

- Polarographic Adsorption Analysis and Tensammetry: Toys or Tools for Day-to-day Routine Analysis, 3

TERRAMYCIN

- Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541

TETRACYCLINE

- Flow Injection Amperometric Detection Based on Ion Transfer Across a Water - Solidified Nitrobenzene Interface for the Determination of Tetracycline and Terramycin, 1541

TETRAENE

- Ratios of Fourier to Orthogonal Function Coefficients: Spectrophotometric Determination of Tetraenes in Amphotericin B, 563

THALLIUM

- Extraction - Photoacoustic Spectroscopic Determination of Antimony, Cadmium, Cobalt, Nickel, Palladium and Thallium, 595
- High-performance Liquid Chromatographic Separation of Iron, Bismuth, Indium and Thallium by Pre-column Chelation with 2-(5-Bromo-2-pyridylazo)-5-(*N*-propyl-*N*-sulphopropylamino)-phenol, 1201
- Spectrophotometric Method for the Determination of Thallium(III) With Chlorpromazine Hydrochloride, 1649
- Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
- Extraction - Chromatographic Separation of Thallium(III) from Citrate Media With a High Relative Molecular Mass Amine, 1781

THEAFLAVIN

- Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479

THEOPHYLLINE

- Stopped-flow Fluorimetric Determination of Theophylline in Pharmaceutical Preparations, 559

THERMAL ANALYSIS

- Thermometric Determination of Trace Amounts of Vanadium(V) in Petroleum Products Using the Chromotropic Acid - Bromate Reaction, 505

THERMAL LENS

- Optimisation of a Compact Single-laser - Dual-beam Thermal Lens Apparatus, 1113

THERMOGRAVIMETRY

- Thermogravimetric Determination of Chlorine in Reforming Catalysts, 669

THERMOMETRIC ANALYSIS

- Thermometric Determination of Trace Amounts of Vanadium(V) in Petroleum Products Using the Chromotropic Acid - Bromate Reaction, 505

THIENODIAZEPINE

- Electrochemical Reduction of Some 1,4-Thienodiazepines at a Glassy Carbon Electrode, 109

THIN-LAYER CHROMATOGRAPHY

- Enhanced Fluorescence of Ergosterol by Iodination and Determination of Ergosterol by Fluorodensitometry, 809
- Determination of Cefotaxime, Desacetylcefotaxime, Cefmenoxime and Ceftizoxime in Biological Samples by Fluorescence Detection After Separation by Thin-layer Chromatography, 899
- Some Applications of Chromatography to Steroid Analysis in the Horse, 1179
- Identification of Doping Agents by Chromatographic Techniques and UV Spectrophotometry, 1189
- Separation of Dansylamino Acid Enantiomers by Thin-layer Chromatography, 1245
- Photometric Determination of Cationic Surfactants, 1249
- Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605
- Analysis of Chrysoidine Dyes Using High-performance Thin-layer Chromatography and a Proposed Method for the Measurement of Chrysoidine Y and R in Air Samples, 1613
- Specific Spray Reagents for the Detection of Carbaryl by Thin-layer Chromatography, 1747

THIOCYANATE

- Determination of Thiocyanate in Human Serum by Ion Chromatography, 389
- Kinetic - Spectrophotometric Determination of Low Cyanide Concentrations in the Presence of Large Amounts of Thiocyanate, 573
- Pre-concentration of Carbon-14 Labelled Thiocyanate by Ion Exchange, 671

THIOCYTOSINE

- Determination of Thiocytosine Using its Enhancement Effect on the Copper Anodic Stripping Wave, 1047

THIOL

- Use of 4-(6-Methylnaphthalen-2-yl)-4-oxobut-2-enoic Acid as a Reagent for the Spectrophotometric and Fluorimetric Determination of Aliphatic Thiol Drugs, 1447

THIONINE BLUE

- Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057

THIOSULPHATE

- Sulphidolysis of Pentathionate and Spectrophotometric Determination of Pentathionate, Thiosulphate and Sulphide in Their Mixtures, 949
- Flow Injection Spectrophotometric Determination of Copper(II) Using the Iron(III) - Thiosulphate Catalytic Reaction, 1827

THIOXANTHENE

- Titrimetric Determination of Some Thioxanthene Derivatives, 1309

THYMOL

- Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865

THYROXINE

- Possibilities and Limitations of Continuous Thyroxine Measurement in an Optode Using the Principle of Homogeneous Fluoroimmunoassay, 1423

TIN

- Simultaneous Determination of Cadmium, Indium and Tin in Standard Reference Materials Using Sub-stoichiometric Extraction of Indium Radioisotopes, 1121
- Determination of Trace Amounts of Tin by Hydride Generation Direct Current Plasma Atomic Emission Spectrometry: Interference Reduction by L-Cystine, 1377
- Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393

TITRIMETRY

- Determination of Ionic Surfactants by Flow Injection Pseudotitration, 117
- Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259
- Determination of Calcium and Magnesium in Milk by Complexometric Titration Using Protein Precipitation and Complexation with Palladiazole or Other Indicators, 633
- Bromimetric Determination of Some Benzothiadiazine Diuretics in Dosage Forms, 637
- Titrimetric Determination of Amino Acids with Tetrabutylammonium Hydroxide in Pyridine and Acetonitrile Solvents, 715
- Automated Flow Injection Spectrophotometric Non-aqueous Pseudotitrations of Amines and Their Hydrohalide Salts, 755
- Possibilities of Application of Some New Algorithms for Standardisation Purposes: Standardisation of Sodium Hydroxide Solution Against Commercial Potassium Hydrogen Phthalate, 833

- Iodimetric Determination of Penicillins by a Triangle Programmed Flow-through Titration Technique, 881
- Evaluation of Certain Pharmaceuticals with Hexamminecobalt(III) - Tricarbonatocobaltate(III). Part 2. Potentiometric Determination of Some Antimony(III) Compounds, 955
- Titration of Bivalent Metal Ions with Sodium Tetraphenylborate in the Presence of Polyethylene Glycol, 959
- Titration in Non-aqueous Media. Part XI. Basicities of Open-chain and Cyclic Polyether Derivatives of Aniline, 965
- Use of Padé Approximants in the Processing of pH Titration Data. Determination of the Parameters Involved in the Titration of Acetic Acid, 969
- Titration in Non-aqueous Media. Part XII. Potentiometric Titrations of Symmetrical Aliphatic Dicarboxylic Acids and Some of Their Binary Mixtures in Different Media, 1017
- Photometric Determination of Cationic Surfactants, 1249
- Use of Two Ion-selective Electrode-containing Cells for Potentiometric Titration of Hexadecylpyridinium Bromide, 1305
- Titrimetric Determination of Some Thioxanthene Derivatives, 1309
- Titration in Non-aqueous Media. Part XIII. Potentiometric and Conductimetric Titrations of α -Amino Acids with Perchloric Acid in Acetic Acid and Acetonitrile - Acetic Acid Solvents, 1313
- Titrimetric Methods for the Determination of Some Sulpha Drugs Using *N*-Bromophthalimide and *N*-Bromosaccharin, 1369
- Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373
- Studies on Lead Ion-selective Electrodes Based on Polyalkoxylates, 1409
- TOBACCO**
Evaluation of an Apparatus Designed for the Collection of Sidestream Tobacco Smoke, 1509
- TOLUIDINE BLUE**
Improved Toluidine Blue Stain Mountant for the Microscopy of Food Products, 365
- TOLYL DISULPHIDE**
Differential-pulse Polarography Applied to Aromatic Disulphides, 977
- TRACE ANALYSIS**
Pre-concentration of Trace Metals from Acidic Sample Solutions on a Thin Layer of Activated Carbon Using Dithizone as a Chelating Agent, 1831
- TRACE ELEMENT**
Characterisation of Trace Elements in Dry Depositions by Instrumental Neutron Activation Analysis, 1575
- TRACE METAL**
Acid Digestion of Marine Samples for Trace Element Analysis Using Microwave Heating, 159
- Determination of Trace Elements in a Marine Reference Material of Lobster Hepatopancreas (TORT-1) Using Inductively Coupled Plasma Mass Spectrometry, 1383
- TRANSISTOR**
Membrane Design and Photocuring Encapsulation of Flatpack Based Ion-sensitive Field Effect Transistors, 103
- TRANSITION METAL**
Simultaneous Determination of Selected Transition Metal Cations and Inorganic Anions by Ion Chromatography, 183
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part I. Complexing Compounds Containing Nitrogen Atoms, 891
- Transition Metal Ion-selective Membrane Electrodes Based on Complexing Compounds with Heteroatoms. Part II. Complexing Compounds Containing Sulphur Atoms, 1803
- TRIAZINE**
Determination of Isomethiozin by Differential-pulse Polarography, 629
- TRIAZOLAM**
Differential-pulse Adsorptive Stripping Voltammetry of the Psychotropic Drugs Triazolam and Clotiazepam, 27
- TRIMETHYLAMINE**
Spectrophotometric Determination of Trimethylamine Nitrogen in Raw Waters Using Picric Acid, 1139
- TRYCYCLAZOLE**
Determination of the Fungicide Trycycloazole in River Water, Soil and Animal Samples, 193
- TRYPTAMINE**
Application of Tryptamine as a Derivatizing Agent for Airborne Isocyanate Determination. Part 2. Dual Function of Tryptamine for Calibration and Derivatization of Poly[methylene(polyphenyl isocyanate)] for Quantification by High-performance Liquid Chromatography, 1209
- TUNGSTEN**
Determination of Tungsten in Composite Nuclear Fuels by Differential-pulse Polarography, 1317
- TYRAMINE**
Analysis of Commercially Available Cheeses for the Migraine Inducer Tyramine by Thin-layer Chromatography and Spectrophotometry, 1605
- ULTRAVIOLET - VISIBLE SPECTROPHOTOMETRY**
Determination of Selenium by Hydride Generation Ultraviolet - Visible Molecular Absorption Spectrometry With Diode-array Detection, 1387
- URANIUM**
Determination of Uranium in Minerals by Laser Fluorimetry, 451
- Continuous Flow Solvent Extraction System for the Determination of Trace Amounts of Uranium in Nuclear Waste Reprocessing Solutions, 463
- Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773
- URANIUM DIOXIDE**
Determination of Tungsten in Composite Nuclear Fuels by Differential-pulse Polarography, 1317
- URANYL ACETATE**
Spectrophotometric Determination of Clotquinol and Diodoquin in Pharmaceutical Preparations Using Uranyl Acetate as a Chromogenic Agent, 1653
- UREA**
Conducting Polymer-coated Enzyme Microsensor for Urea, 329
- URINARY CALCULI**
Microanalysis of Urinary Calculi by Quantitative X-ray Diffraction Procedures, 783
- URINE**
Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321
- Capillary Gas Chromatographic Determination of Cyclizine and Dipipanone in Biological Fluids, 385
- Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
- Liquid Chromatography with Amperometric Detection for the Determination of Cephalosporins in Biological Fluids, 651
- Spectrophotometric Determination of the Stability of Clavulanic Acid and its Ether and Amine Derivatives in Serum and Urine, 761
- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917
- Isotope Dilution Spark-source Mass Spectrometric Determination of Total Mercury in Botanical and Biological Samples, 923
- Semi-automatic Catalytic Titration Method for the Analysis of Cystine - Cysteine Mixtures and its Application to Urine Samples, 1373
- Enzymic Fluorimetric Determination of Sulphated and Non-sulphated Bile Acids in Urine Using a Rapid Solvolysis Technique, 1459
- Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481
- Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceutical Preparations, Foods and Urine by Formation of a 2-Oximino-cyclohexanone Thiosemicarbazone - Iron(II) Complex, 1657
- VALPROIC ACID**
Simple and Rapid Gas Chromatographic Determination of Valproic Acid in Plasma, 1873
- VALVE**
Multi-function Valve for Flow Injection Analysis, 731
- VANADIUM**
Thermometric Determination of Trace Amounts of Vanadium(V) in Petroleum Products Using the Chromotropic Acid - Bromate Reaction, 505
- Spectrofluorimetric Determination of Vanadium(V) in Petroleum Crudes and Basic Slag with Nuclear Fast Red, 987
- Flow Injection Determination of Oxidants with *leuco*-Thionine Blue, 1057
- Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacryloylhydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561
- VAPOUR SAMPLER**
Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799
- VEGETABLE**
Determination of Fentin Residues in Potatoes and Celery, 1237
- VINEGAR**
Determination of Trace Amounts of Acetic Acid in Ethanol by Fluoride Isoconcentration Using the Method of Standard Additions, 1865
- VITAMIN A₁**
Voltammetric Behaviour of All-*trans*-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
- VITAMIN B₁₃**
Determination of Orotic Acid (Vitamin B₁₃) in Human Serum and Urine by Differential-pulse Polarography, 321

VITAMIN C

Determination of Vitamin C in Chemical, Pharmaceutical and Biological Samples by Spectrophotometric Titrimetry with *o*-Diacetoxyiodobenzoate. Analysis of Mixtures of Vitamin C with Methionine and Cysteine or Glutathione, 259

VITAMIN E

Simplified Saponification Procedure for the Routine Determination of Total Vitamin E in Dairy Products, Foods and Tissues by High-performance Liquid Chromatography, 1217

VITAMIN K

Determination of Endogenous Vitamin K (Phylloquinone and Menaquinone-*n*) in Plasma by High-performance Liquid Chromatography Using Platinum Oxide Catalyst Reduction and Fluorescence Detection, 393

VOLTAMMETRY

Electrochemical Reduction of Cefsulodin, 23
Differential-pulse Adsorptive Stripping Voltammetry of the Psychotropic Drugs Triazolam and Clotiazepam, 27
Application of Adsorptive Stripping Voltammetry for a Study of the Reaction of Mouse IgG with Anti-mouse IgG, 31
Determination of Copper(II) with a Carbon Paste Electrode Modified with an Ion-exchange Resin, 41
Indirect Voltammetric and Atomic Absorption Spectrometric Determination of Caffeine, 121
Determination of Clonazepam by Flow Injection Analysis, 317
Electroanalytical Studies of Ferrocene and Substituted Ferrocene in Non-aqueous Solvents by Rotating Disc Voltammetry, 333
Reductive Differential-pulse Adsorptive Stripping Voltammetric Determination of Molybdenum as 12-Molybdophosphoric Acid or as Molybdic Acid at a Hanging Mercury Drop Electrode, 361
Determination of Theaflavin in Tea Liquors Using Voltammetric Methods, 479
Characterisation of an Impinging Jet Electrode in an Amperometric Detector by Hydrodynamic Voltammetry, 483
Comparison of Voltammetric and Graphite Furnace Atomic Absorption Spectrometric Methods for the Direct Determination of Inorganic Platinum in Urine, 609
Comparative Study of the Electrochemical Behaviour of Sepiolite and Hectorite Modified Carbon Paste Electrodes in the Determination of Dinocap, 621
Voltammetric Determination of Pentachlorophenol at a Glassy Carbon Electrode, 625
Practical Applications of Carbon Fibre Electrodes, 705
Quantitative and Qualitative Analysis of Saframycin.
Polarographic and Voltammetric Behaviour and Direct Polarographic Determination of Saframycin A in Fermentation Broth and the High-performance Liquid Chromatographic Determination of Various Saframycins, 721
Electrochemical Study of the Hallucinogen (\pm)-1-(2,5-Dimethoxy-4-nitrophenyl)-2-aminopropane, 859
Simultaneous Determination of Methyl Salicylate and Thymol in Various Pharmaceutical Formulations by Differential-pulse Voltammetry Using a Glassy Carbon Electrode, 865
Adsorptive Cathodic Stripping Voltammetry of Amethopterin at a Static Mercury Drop Electrode and its Application to Serum Drug Determination, 869
Determination of Thiocytosine Using its Enhancement Effect on the Copper Anodic Stripping Wave, 1047
Application of a Novel Strategy for the Recovery and Trace Enrichment of Acrylamide Monomer to its Liquid Chromatographic Determination in Acrylamide Copolymers, 1205
Differential-pulse Adsorptive Stripping Voltammetric Method for the Determination of Nitrite at p.p.b. Levels after Diazotisation of Aniline and Coupling with Azulene and its Modification for the Determination of Aromatic Amines, 1337
Gold - Chloride Electrodes for Voltammetric Analyses, 1339
Determination of Total Sulphur in Ethanol by Reduction Using Raney Nickel and Detection by Cathodic Stripping Voltammetry, 1427
Differential Anodic Stripping Voltammetric Determination of Selenium in Hair and Flour at a Gold-film Electrode, 1431
Medium Effects in the Stripping Voltammetry of Mercury, 1533
Determination of Clozapine by Adsorptive Anodic Voltammetry Using Glassy Carbon and Modified Carbon Paste Electrodes, 1715
Determination of Flunitrazepam by Differential-pulse Voltammetry Using a Bentonite-modified Carbon Paste Electrode, 1719
Voltammetric Behaviour of All-*trans*-retinol (Vitamin A₁) at a Glassy Carbon Electrode and its Determination in Human Serum Using High-performance Liquid Chromatography With Electrochemical Detection, 1785
Application of Adsorptive Stripping Voltammetry to the Study of the Reaction of Immunoglobulin E With Anti-immunoglobulin E, 1795
Voltammetric Determination of Airborne 2-Chloronitrobenzene Using a Recirculating Absorbent Vapour Sampler, 1799

WATER

Determination of Low Sulphide and Cyanide Levels in Biochemical and Environmental Control Using a Deposited-on-Wire Ag - Ag₂S Electrode, 71
On-line Pre-concentration and Determination of Lead in Potable Water by Flow Injection Atomic Absorption Spectrometry, 125
Determination of the Fungicide Trycycloazole in River Water, Soil and Animal Samples, 193
Measurement of Rainwater pH by Optosensing Flow Injection Analysis, 301
Determination of Chloride in Surface and Groundwater by Centrifugal Analysis, 307
On-line Direct Potentiometry of Residual Water in Organic Solvents Using the Proton Isoconcentration Technique, 337
Microdetermination of Fluoride in Water by Ion-exchange Spectrophotometry, 419
Application of Ion-exchanger Phase Absorptiometry to Flow Analysis. Determination of Trace Amounts of Chromium(VI) in Water, 471
Determination of Trace Amounts of Aluminium by Ion Chromatography with Fluorescence Detection, 641
Determination of Formaldehyde in River Water by High-performance Liquid Chromatography, 665
Determination of pH, Conductivity, Residual Chlorine and Ammonium and Nitrite Ions in Water with an Unsegmented Flow Configuration, 739
Spectrophotometric Determination of Potassium in River Water Based on Solvent Extraction of the Complex Formed with a Crown Ether and an Anionic Azo Dye Using Flow Injection, 743
Spectrophotometric Determination of Anionic Surfactants in Water After Solvent Extraction Coupled with Flow Injection, 747
Separation and Concentration of Lead, Uranium and Copper Using Polystyrene Resins Functionalised with Azobenzylphosphonic Acid Ligands, 773
Addition Method in the Proton Isoconcentration Technique for the Determination of Water in Organic Solvents, 843
Determination of Sulphide Using Flow Injection Analysis with a Coated Tubular Solid-state Silver Sulphide Ion-selective Electrode, 885
Spectrophotometric Determination of Iodide at the 10^{-6} mol l⁻¹ Level by Solvent Extraction with Methylene Blue, 945
Spectrophotometric Determination of Boron in Water with Prior Distillation and Hydrolysis of the Methyl Borate, 1069
Spectrophotometric Determination of Nitrite in Water, 1073
Photoacoustic Spectrometric Determination of Palladium(II) in Water by Dithizone Extraction and Solid Sample Preparation, 1105
Determination of Fluoride in Drinking Water and Sea Water by Aluminium Monofluoride Molecular Absorption Spectrometry Using an Electrothermal Graphite Furnace, 1109
Spectrophotometric Determination of Trimethylamine Nitrogen in Raw Waters Using Picric Acid, 1139
Spectrophotometric Method for the Determination of Total Cyanide in Wastewater Samples, 1273
N-(3-Hydroxy-2-pyridyl)salicylaldehyde as a Reagent for the Selective Fluorimetric Determination of Aluminium in Waters, 1287
On-line Direct Potentiometry of Residual Water in Organic Solvents Using Cells Without a Liquid Junction Under Proton Isoconcentration Conditions, 1365
Determination of Triorganotin Compounds by Liquid Chromatography With Indirect Photometric Detection, 1393
Ion-exchange Treatment of Complicated Samples Prior to Ion Chromatographic Analysis, 1401
Spectrophotometric Determination of Trace Amounts of Hydrazine in Polluted Water, 1481
Transient Responses of Glass Electrodes in Dilute Solutions and Freshwaters, 1537
Microdetermination of Vanadium in Environmental Samples as its Ternary Complex With *N*-*p*-Aminophenyl-2-thenylacrylohydroxamic Acid and 3-(*o*-Carboxyphenyl)-1-phenyltriazine-*N*-oxide, 1561
Determination of Water in Acetic and Formic Acids by the Proton Isoconcentration Technique Using the Addition Method, 1593
Spectrophotometric Determination of Dissolved Oxygen in Water Through the Formation of an Argentocyanide Complex With Silver Sol, 1601
Determination of Boron With Chromotropic Acid by High-performance Liquid Chromatography, 1631
Direct Spectrophotometric Determination of Sulphate Ion Based on the Formation of a Blue Molybdosulphate Complex, 1639
Spectrophotometric Determination of Low Levels of Anionic Surfactants in Water by Solvent Extraction in a Flow Injection System, 1677
Determination of Phosphate, Arsenate and Arsenite in Natural Water by Flotation - Spectrophotometry and Extraction - Indirect Atomic Absorption Spectrometry Using Malachite Green as an Ion-pair Reagent, 1683

- Use of a Personal Computer for Signal Treatment in Atomic Absorption Spectrometry With Electrothermal Atomisation Using Deuterium Arc Background Correction, 1691
- Acid-soluble Membrane Filter for the Pre-concentration and Electrothermal Atomisation Atomic Absorption Spectrometric Determination of Trace Levels of Cadmium in Water, 1695**
- Determination of Water in Acetonitrile, Propionitrile, Dimethylformamide and Tetrahydrofuran by Infrared and Near-infrared Spectrometry, 1729
- Continuous Flow Determination of Sulphate With a Lead-selective Electrode, 1817
- WATER ANALYSIS**
- Continuous Flow Determination of Low Concentrations of Ammonium Ions Using a Gas Dialysis Concentrator and a Gas Electrode Detector System, 113
- WINE**
- Detection and Identification of Procyanidins and Flavanols in Wine by Dual-electrode Liquid Chromatography - Electrochemistry, 99
- XANTHATE**
- High-performance Liquid Chromatographic Separation and Identification of Alkylxanthate Mixtures After Derivatisation with Dimeric Cobalt Dithiocarbamates, 685
- XIPAMIDE**
- High-performance Liquid Chromatographic Determination of Xipamide in Human Plasma, 229
- X-RAY DIFFRACTION**
- Microanalysis of Urinary Calculi by Quantitative X-ray Diffraction Procedures, 783
- X-ray Diffractometric Determination of Mullite in Silica - Alumina Ceramics Using Multiple Analytical Lines, 1737
- X-RAY FLUORESCENCE**
- Determination of Microgram Amounts of Zirconium in Geological Materials by Coprecipitation with Iron(III) Hydroxide and X-ray Fluorescence Spectrometry, 197
- Determination of Chromium Oxidation State by X-ray Fluorescence Spectrometry: Application to Chromium(VI) and Chromium(III) Determination in Occupational Hygiene Samples, 779
- Rapid Determination of Arsenic in the Presence of Lead in a Zinc Sulphide Matrix by X-ray Fluorescence Spectrometry, 1325

YTTRIUM

- Fluorimetric Determination of Trace Amounts of Yttrium with Salicylaldehyde Carbohydrazone, 1291

ZEEMAN EFFECT

- Determination of Chromium in Human Urine by Graphite Furnace Atomic Absorption Spectrometry with Zeeman-effect Background Correction, 917

ZINC

- Use of Salicylaldehyde Carbohydrazone as a Reagent for the Determination of Trace Amounts of Zinc in Biological Samples and Alloys, 547
- Analytical Applications of Microemulsions. Spectrophotometric Determination of Zinc Using Dithizone, 769
- Determination of Non-protein-bound Zinc in Human Serum Using Ultrafiltration and Atomic Absorption Spectrometry with Electrothermal Atomisation, 911
- Spectrophotometric and Spectrofluorimetric Determination of the Ternary Complexes of Cadmium(II) and Zinc(II) with 2,2'-Bipyridine and Rose Bengal Extra, 941
- Simultaneous Determination of Aluminium and Zinc by First- and Second-derivative Synchronous Fluorimetry, 1435

ZINC SULPHIDE

- Rapid Determination of Arsenic in the Presence of Lead in a Zinc Sulphide Matrix by X-ray Fluorescence Spectrometry, 1325

ZIRCALOY

- Determination of Iron in Zircaloy-2 and Zircaloy-4 by Differential-pulse Polarography, 837

ZIRCONIUM

- Determination of Microgram Amounts of Zirconium in Geological Materials by Coprecipitation with Iron(III) Hydroxide and X-ray Fluorescence Spectrometry, 197
- Kinetic - Fluorimetric Study of the Activator Effect of Zirconium(IV) on the Air Oxidation of Morin Catalysed by Manganese(II), 437
- Spectrophotometric Study of the Complexation Equilibria of Zirconium(IV) With 1-Amino-4-hydroxyanthraquinone and the Determination of Zirconium, 1643

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- Bidlingmeyer. Preparative Liquid Chromatography, 848
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- Dodd and Tonge. Thermal Methods, 203
- Doerffel and Geyer. Analytikum. Methoden der Analytischen Chemie und Ihre Theoretischen Grundlagen. 7. Auflage, 1751
- Dunn. Electrophoresis '86, 368
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- Evans. Potentiometry and Ion-selective Electrodes, 204
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- George and McIntyre. Infrared Spectroscopy, 1151
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- Grob. On-column Injection in Capillary Gas Chromatography. Basic Technique, Retention Gaps, Solvent Effects, 689
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- Hamilton and Hamilton. Thin Layer Chromatography, 367
- Hargis. Analytical Chemistry. Principles and Techniques, 1487
- Hellmann. Analysis of Surface Waters, 1344
- Hulanicki. Reactions of Acids and Bases in Analytical Chemistry, 690
- James. Using Literature, 847
- Johnston. Computational Chemistry. An Emphasis on Practical Calculations, 1879
- Jorgenson and Phillips. New Directions in Electrophoretic Methods, 690
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- Koningsberger and Prins. X-ray Absorption. Principles, Applications, Techniques of EXAFS, SEXAFS and XANES, 1153
- Kramer and Liston. Seafood Quality Determination, 1343
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- Lawes. Scanning Electron Microscopy and X-Ray Microanalysis, 203
- Lenadhan and Murray-Smith. Assay and Analytical Practice in the South African Mining Industry, 529
- Lindsay. High Performance Liquid Chromatography, 992
- Linskens and Jackson. Immunology in Plant Sciences, 207
- Long and Stevens. Industrial Applications of the Mössbauer Effect, 369
- McConnell. The Theory of Nuclear Magnetic Relaxation in Liquids, 848
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- Rendell. Fluorescence and Phosphorescence, 849
- Rice, Bollyky and Lacey. Analytical Aspects of Ozone Treatment of Water and Wastewater, 527
- Rödel and Wölm. A Guide to Gas Chromatography, 528
- Rosen. Application of New Mass Spectrometry Techniques in Pesticide Chemistry, 206
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- Schölmerich, Andreesen, Kapp, Ernst and Woods. Bioluminescence and Chemiluminescence. New Perspectives, 367
- Segebade, Weise and Lutz. Photon Activation Analysis, 1487
- Sewell and Clarke. Chromatographic Separations, 1149
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Widmann and Riesen. Thermal Analysis. Terms, Methods, Applications, 203
Willett. Gas Chromatography, 367
Williams and Hudson. Recent Developments in Ion Exchange, 1152
Willis, Van der Maas and Miller. Laboratory Methods in Vibrational Spectroscopy. Third Edition, 1151
Wiseman. Enzyme Induction, Mutagen Activation and Carcinogen Testing in Yeast, 206

APPENDIX

*IUPAC Publications on Nomenclature and Symbolism***1.0 Compilations**

1.1 Nomenclature of Organic Chemistry, a 550-page hardcover volume published in 1979, available from Pergamon, Oxford.

- Section A: Hydrocarbons
- Section B: Fundamental heterocyclic systems
- Section C: Characteristic groups containing carbon, hydrogen, oxygen, nitrogen, halogen, sulphur, selenium, and tellurium
- Section D: Organic compounds containing elements not exclusively those referred to in the title of Section C
- Section E: Stereochemistry
- Section F: General principles for the naming of natural products and related compounds
- Section H: Isotopically modified compounds

1.2 Nomenclature of Inorganic Chemistry, a 110-page hardcover volume published in 1970, available from Pergamon, Oxford.

- Chapter 1: Elements
- Chapter 2: Formulae and names of compounds in general
- Chapter 3: Names for ions and radicals
- Chapter 4: Iso- and hetero-polyanions
- Chapter 5: Acids
- Chapter 6: Salts and salt-like compounds
- Chapter 7: Co-ordination compounds
- Chapter 8: Addition compounds
- Chapter 9: Crystalline phases of variable composition
- Chapter 10: Polymorphism
- Chapter 11: Boron compounds

1.3 Biochemical Nomenclature and Related Documents, a 220-page softcover manual published in 1978 by The Biochemical Society for IUB, and available from the Biochemical Society Book Depot, P.O. Box 32, Commerce Way, Colchester, Essex CO2 8HP. The contents are as follows:

General

Nomenclature of organic chemistry. Section E: Stereochemistry (1974)

Nomenclature of organic chemistry. Section F: Natural products and related compounds (1976)

Nomenclature of organic chemistry. Section H: Isotopically modified compounds (1977)

Isotopically labelled compounds: common biochemical practice

Recommendations for measurement and presentation of biochemical equilibrium data (1976)

Abbreviations and symbols for chemical names of special interest in biological chemistry (1965)

Abbreviations and symbols: a compilation (1976)

Citation of bibliographic references in biochemical journals (1971)

Amino acids, peptides and proteins

Nomenclature of α -amino acids (1974)

Symbols for amino-acid derivatives and peptides (1971)

Rules for naming synthetic modifications of natural peptides (1966)

Abbreviated nomenclature of synthetic polypeptides or polymerized amino acids (1971)

A one-letter notation for amino-acid sequences (1968)

Abbreviations and symbols for the description of the conformation of polypeptide chains (1969)

Nomenclature of peptide hormones (1974)

Recommendations for the nomenclature of human immunoglobulins

Protein data bank. A computer-based archival file for macromolecular structures (1977)

Nomenclature of multiple forms of enzymes (1976)

Nucleotides and nucleic acids

Abbreviations and symbols for nucleic acids, polynucleotides and their constituents (1970)

Lipids

Nomenclature of lipids (1976)

Nomenclature of steroids (1967)

Nomenclature of quinones with isoprenoid side chains (1973)

Tentative rules for the nomenclature of carotenoids (1970).

Amendments (1974)

Nomenclature of tocopherols and related compounds (1973)

Carbohydrates, etc.

Tentative rules for carbohydrate nomenclature. Part 1 (1969)

Nomenclature of cyclitols (1973)

Phosphorus-containing compounds

Nomenclature of phosphorus-containing compounds of biochemical importance (1976)

Miscellaneous

Trivial names of miscellaneous compounds of importance in biochemistry (1965)

Nomenclature and symbols for folic acids and related compounds (1965)

Nomenclature for vitamins B-6 and related compounds (1973)

Nomenclature of corrinoids (1973)

1.4 Compendium of Analytical Nomenclature, a 280-page hardcover volume published in 1987, available from Blackwell Scientific Publications, Oxford. The contents are as follows:

Presentation of the Results of Chemical Analysis

Solution Thermodynamics (activity coefficients, equilibria, pH)

Recommendations for Terminology to be used with Precision Balances

Recommendations for Nomenclature of Thermal Analysis

Recommendations for Nomenclature of Titrimetric Analysis

Electrochemical Analysis

Analytical Separation Processes (precipitation, liquid-liquid distribution, zone melting and fractional crystallization, chromatography, ion exchange)

Spectrochemical Analysis (radiation sources, general atomic emission spectroscopy, flame spectroscopy, X-ray emission spectroscopy, molecular methods)

Recommendations for Nomenclature of Mass Spectrometry
 Recommendations for Nomenclature of Radiochemical Methods
 Surface Analysis (including photoelectron spectroscopy)

1.5 Compendium of Chemical Terminology: IUPAC Recommendations, a 456-page volume published in 1987, available in hardcover and softcover from Blackwell Scientific Publications, Oxford.

1.6 Quantities, Units, and Symbols in Physical Chemistry, a 134-page hardcover volume published in 1988, available from Blackwell Scientific Publications, Oxford.

2.0 Documents not included in the compilations

2.1 Nomenclature of Elements and Compounds

2.1.1 Amino acids and Peptides

Nomenclature and symbolism for amino acids and peptides (*Pure Appl. Chem.*, 1984, **56**, 595; *Eur. J. Biochem.*, 1984, **138**, 9).

2.1.2 Analytical Reagents

Guide to trivial names, trade names, and synonyms for substances used in analytical chemistry (*Pure Appl. Chem.*, 1978, **50**, 339).

2.1.3 Boron Compounds

Nomenclature of inorganic boron compounds (*Pure Appl. Chem.*, 1972, **30**, 681).

2.1.4 Carbohydrates

Conformational nomenclature for five- and six-membered ring forms of monosaccharides and their derivatives (provisional) (*Pure Appl. Chem.*, 1981, **53**, 1901; *Eur. J. Biochem.*, 1980, **111**, 295).

Abbreviated terminology of oligosaccharide chains (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1517; *J. Biol. Chem.*, 1982, **257**, 2347).

Polysaccharide nomenclature (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1523; *J. Biol. Chem.*, 1982, **257**, 3352).

Nomenclature of unsaturated monosaccharides (provisional) (*Pure Appl. Chem.*, 1982, **54**, 207; *Eur. J. Biochem.*, 1981, **119**, 1; errata *Eur. J. Biochem.*, 1982, **125**, 1).

Nomenclature of branched-chain monosaccharides (provisional) (*Pure Appl. Chem.*, 1982, **54**, 211; *Eur. J. Biochem.*, 1981, **119**, 5; errata *Eur. J. Biochem.*, 1982, **125**, 1).

Symbols for specifying the conformation of polysaccharide chains (provisional) (*Pure Appl. Chem.*, 1983, **55**, 1269; *Eur. J. Biochem.*, 1983, **131**, 5).

2.1.5 Delta Convention

Nomenclature for cyclic organic compounds with contiguous formal double bonds (*Pure Appl. Chem.*, 1988, **60**, 1395).

2.1.6 Elements

Recommendations for the names of elements of atomic number greater than 100 (*Pure Appl. Chem.*, 1979, **51**, 381).

2.1.7 Enzymes

Enzyme Nomenclature (1984), published by Academic Press in hardcover and softcover editions.

2.1.8 Folic Acid

Nomenclature and symbols for folic acid and related compounds (*Pure Appl. Chem.*, 1987, **59**, 833; *Eur. J. Biochem.*, 1987, **168**, 251).

2.1.9 Glycoproteins

Nomenclature of glycoproteins, glycopeptides, and peptidoglycans (*Pure Appl. Chem.*, 1988, **60**, 1389).

2.1.10 Heterocyclic Compounds

Revision of the extended Hantzsch-Widman system of nomenclature for heteromonocycles (*Pure Appl. Chem.*, 1983, **55**, 409).

2.1.11 Hydrogen

Names for hydrogen atoms, ions, and groups, and for reactions involving them (*Pure Appl. Chem.*, 1988, **60**, 1115).

2.1.12 Isotopically Modified Compounds

Nomenclature of inorganic chemistry. Part II. 1. Isotopically modified compounds (*Pure Appl. Chem.*, 1981, **53**, 1887).

2.1.13 Lambda Convention

Treatment of variable valence in organic nomenclature (*Pure Appl. Chem.*, 1984, **56**, 769).

2.1.14 Nitrogen Hydrides

Nomenclature of hydrides of nitrogen and derived cations, anions, and ligands (*Pure Appl. Chem.*, 1982, **54**, 2545).

2.1.15 Nucleotides

Abbreviations and symbols for the description of conformations of polynucleotide chains (provisional) (*Pure Appl. Chem.*, 1983, **55**, 1279; *Eur. J. Biochem.*, 1983, **131**, 9).

2.1.16 Numerical Terms

Extension of Rules A-1.1 and A-2.5 concerning numerical terms used in organic chemical nomenclature (*Pure Appl. Chem.*, 1986, **58**, 1693).

2.1.17 Polymers

Nomenclature of regular single-strand organic polymers (*Pure Appl. Chem.*, 1976, **48**, 373).

Nomenclature for regular single-strand and quasi single-strand inorganic and co-ordination polymers (*Pure Appl. Chem.*, 1985, **57**, 149).

Source-based nomenclature for copolymers (*Pure Appl. Chem.*, 1985, **57**, 1427).

Stereochemical definitions and notations relating to polymers (*Pure Appl. Chem.*, 1981, **53**, 733).

Use of abbreviations for names of polymeric substances (*Pure Appl. Chem.*, 1987, **59**, 691).

Basic definitions of terms relating to polymers (*Pure Appl. Chem.*, 1974, **40**, 477).

2.1.18 Polyanions

Nomenclature of polyanions (*Pure Appl. Chem.*, 1987, **59**, 1529).

2.1.19 Prenols

Nomenclature of prenols (*Pure Appl. Chem.*, 1987, **59**, 683; *Eur. J. Biochem.*, 1987, **167**, 181).

2.1.20 Retinoids

Nomenclature of retinoids (provisional) (*Pure Appl. Chem.*, 1983, **55**, 721; *Eur. J. Biochem.*, 1982, **129**, 1).

2.1.21 Tetrapyrroles

Nomenclature of tetrapyrroles (*Pure Appl. Chem.*, 1987, **59**, 779).

2.1.22 Tocopherols

Nomenclature of tocopherols and related compounds (*Pure Appl. Chem.*, 1982, **54**, 1507; *Eur. J. Biochem.*, 1982, **123**, 473).

2.1.23 Vitamins

Nomenclature of Vitamin D (provisional) (*Pure Appl. Chem.*, 1982, **54**, 1511; *Eur. J. Biochem.*, 1982, **124**, 223).

2.1.24 Zeolites

Chemical nomenclature and formulation of compositions of synthetic and natural zeolites (*Pure Appl. Chem.*, 1979, **51**, 1091).

2.2 Terminology, Symbols, and Units, and Presentation of Results

2.2.1 General

Glossary of terms used in physical organic chemistry (*Pure Appl. Chem.*, 1983, **55**, 1281).

2.2.2 Analytical

Nomenclature, symbols, units, and their usage in spectrochemical analysis. Part VII, Molecular absorption spectroscopy, u.v. and visible (*Pure Appl. Chem.*, 1988, **60**, 1449). Part X, Preparation of materials for analytical atomic spectroscopy (*Pure Appl. Chem.*, 1988, **60**, 1461).

Recommendations for publication of papers on a new analytical method based on ion exchange or ion-exchange chromatography (*Pure Appl. Chem.*, 1980, **52**, 2555).

Recommendations for presentation of data on compleximetric indicators. 1. General (*Pure Appl. Chem.*, 1979, **51**, 1357).

Recommendations for publishing manuscripts on ion-selective electrodes (*Pure Appl. Chem.*, 1981, **53**, 1907).

Recommendations on use of the term amplification reactions (*Pure Appl. Chem.*, 1982, **54**, 2553).

Recommendations for the usage of selective, selectivity, and related terms in analytical chemistry (*Pure Appl. Chem.*, 1983, **55**, 553).

2.2.3 Clinical

Physicochemical quantities and units in clinical chemistry with special emphasis on activities and activity coefficients (*Pure Appl. Chem.*, 1984, **56**, 567).

Quantities and units in clinical chemistry (*Pure Appl. Chem.*, 1979, **51**, 2451).

Quantities and units in clinical chemistry: nebulizer and flame properties in flame emission and absorption spectrometry (*Pure Appl. Chem.*, 1986, **58**, 1737).

List of quantities in clinical chemistry (*Pure Appl. Chem.*, 1979, **51**, 2481).

2.2.4 Colloids and Surface Chemistry

Definitions, terminology, and symbols in colloid and surface chemistry. I (*Pure Appl. Chem.*, 1972, **31**, 577). II, Heterogeneous catalysis (*Pure Appl. Chem.*, 1976, **46**, 71). Part 1.14: Light scattering (provisional) (*Pure Appl. Chem.*, 1983, **55**, 931).

Reporting experimental pressure-area data with film balances (*Pure Appl. Chem.*, 1985, **57**, 621).

Reporting physisorption data for gas/solid systems with special reference to the determination of surface area and porosity (*Pure Appl. Chem.*, 1985, **57**, 603).

Reporting data on adsorption from solution at the solid/solution interface (*Pure Appl. Chem.*, 1986, **58**, 967).

2.2.5 Electrochemistry

Nomenclature for transfer phenomena in electrolytic systems (*Pure Appl. Chem.*, 1981, **53**, 1827).

Electrode reaction orders, transfer coefficients, and rate constants—amplification of definitions and recommendations for publication of parameters (*Pure Appl. Chem.*, 1980, **52**, 233). Classification and nomenclature of electroanalytical techniques (*Pure Appl. Chem.*, 1976, **45**, 81).

Recommendations for sign conventions and plotting of electrochemical data (*Pure Appl. Chem.*, 1976, **45**, 131).

Electrochemical nomenclature (*Pure Appl. Chem.*, 1974, **37**, 499).

Recommendations on reporting electrode potentials in non-aqueous solvents (*Pure Appl. Chem.*, 1984, **56**, 461).

Definition of pH scales, standard reference values, measurement

of pH and related terminology (*Pure Appl. Chem.*, 1985, **57**, 531).

Interphases in systems of conducting phases (*Pure Appl. Chem.*, 1986, **58**, 437).

The absolute electrode potential: an explanatory note (*Pure Appl. Chem.*, 1986, **58**, 955).

2.2.6 Kinetics

Symbolism and terminology in chemical kinetics (provisional) (*Pure Appl. Chem.*, 1981, **53**, 753).

2.2.7 Photochemistry

Recommended standards for reporting photochemical data (*Pure Appl. Chem.*, 1984, **56**, 939).

Glossary of terms used in photochemistry (*Pure Appl. Chem.*, 1988, **60**, 1055).

2.2.8 Quantum Chemistry

Expression of results in quantum chemistry (*Pure Appl. Chem.*, 1978, **50**, 75).

2.2.9 Reactions

Nomenclature for straightforward transformations (provisional) (*Pure Appl. Chem.*, 1981, **53**, 306).

2.2.10 Rheological Properties

Selected definitions, terminology, and symbols for rheological properties (*Pure Appl. Chem.*, 1979, **51**, 1215).

2.2.11 Spectroscopy

Recommendations for publication of papers on methods of molecular absorption spectrophotometry in solution (*Pure Appl. Chem.*, 1978, **50**, 237).

Recommendations for the presentation of infrared absorption spectra in data collections. A, Condensed phases (*Pure Appl. Chem.*, 1978, **50**, 231).

Definition and symbolism of molecular force constants (*Pure Appl. Chem.*, 1978, **50**, 1709).

Nomenclature and conventions for reporting Mössbauer spectroscopic data (*Pure Appl. Chem.*, 1976, **45**, 211).

Recommendations for the presentation of NMR data for publication in chemical journals. A, Proton spectra (*Pure Appl. Chem.*, 1972, **29**, 625). B, Spectra from nuclei other than protons (*Pure Appl. Chem.*, 1976, **45**, 217).

Presentation of Raman spectra in data collections (*Pure Appl. Chem.*, 1981, **53**, 1879).

Names, symbols, definitions and units of quantities in optical spectroscopy (*Pure Appl. Chem.*, 1985, **57**, 105).

A descriptive classification of the electron spectroscopies (*Pure Appl. Chem.*, 1987, **59**, 1343).

Presentation of molecular parameter values for i.r. and Raman intensity (*Pure Appl. Chem.*, 1988, **60**, 1385).

2.2.12 Thermodynamics

A guide to procedures for the publication of thermodynamic data (*Pure Appl. Chem.*, 1972, **39**, 395).

Assignment and presentation of uncertainties of the numerical results of thermodynamic measurements (*Pure Appl. Chem.*, 1981, **53**, 1805).

Notation for states and processes; significance of the word 'standard' in chemical thermodynamics and remarks on commonly tabulated forms of thermodynamic functions (*Pure Appl. Chem.*, 1982, **54**, 1239).

